

PA-0024 US

<110> Loring, Jeanne F.
Tingley, Debora W.
Edwards, Carla M.

<120> GENES EXPRESSED IN ALZHEIMER'S DISEASE

<130> PA-0024 US

<140> To Be Assigned

<141> Herewith

<160> 138

<170> PERL Program

<210> 1

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 997264.12

<400> 1

```
cgttcgcagc gctacccttt tccgctccac ggtgacctcc gtgcggcccg gtgccgggcg 60
gagtcttccct cgatcccctg gtgctcccg ggcgggccgt tggctctctt ccggtcgcgg 120
ggacaccggg tgtagagggc ggtcgcggcg ggcagtggcg gcagaatgtt ggctaccagg 180
gtatttagcc tagttggcaa gcgagcaatt tccacctctg tgtgtgtacg agctcatgaa 240
agtgtttgtga agagcgaaga cttttcgtct ccagcttata tggatcggcg tgaccacccc 300
ttgccggagg tggcccatgt caagcacctg tctgccagcc agaaggcact gaaggagaag 360
gagaaggcct cctggagcag cctctccatg gatgagaaag tcgagttgta tcgcattaag 420
ttcaaggaga gctttgctga gatgaacagg ggctcgaacg agtgggaagac ggttgtgggc 480
ggtgccatgt tcttcacggt tttcaccccg ctctgttatca tgtggcagaa gcactatgtg 540
tacggccccc tccgcaaag ctttgacaaa gagtgggtgg ccaagcagac caagaggatg 600
ctggacatga aggtgaaccc catccagggc ttagcctcca agtgggacta cgaaaagaac 660
gagtggaaaga agtgagagat gctggcctgc gcctgcacct gcgcctggct ctgtcaccgc 720
catgcaactc catgcctatt tactggaaac ctgttatgcc aaacagttgt accactgcta 780
ataaatgacc agtttacctg aaaaaaaaaa ccaaatggg gaagaaaaaa cttcggacaa 840
agaaggaagt gcgagaagaa gcccatgtgg agccgctcct 880
```

<210> 2

<211> 1039

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 998433.2

<400> 2

```
cttagtcgcg ggctgactgg tgtttatccg tcactcgccg aggttccttg ggtcatgggtg 60
ccagcctgac tgagaagagg acgctcccgg gagacgaatg aggaaccacc tcctcctact 120
gttcaagtac aggggcctgg tccgcaaagg gaagaaaagc aaaagacgaa atgggctaaa 180
ttcgtgatcc gccagccac tgccgccgac tgcagtgaac tactgcggct gatcaaggag 240
ctggctaaat atgaatacat ggaagaacaa gtaatcttaa ctgaaaaaga tctgctagaa 300
gatggttttg gagagcacc cttttaccac tgccctgggtg cagaagtgcc gaaagagcac 360
tggactccgg aaggacacag cattgttggg tttgccatgt actattttac ctatgacccg 420
tggattggca agttattgta tcttgaggac ttcttcgtga tgagtgatta tagaggcttt 480
ggcataggat cagaaattct gaagaatcta agccagggtg caatgagggt tcgctgcagc 540
```

PA-0024 US

agcatgcact	tcttggtagc	agaatggaat	gaaccatcca	tcaacttcta	taaaagaaga	600
ggtgcttctg	atctgtccag	tgaagagggg	tggagactgt	tcaagatcga	caaggagtag	660
ttgctaaaaa	tggcaacaga	ggagttagga	gtgctgctgt	agatgacaac	ctccattcta	720
ttttagaata	aattcccaac	ttctcttgct	ttctatgctg	tttgtagtga	aataatagaa	780
tgagcaccca	ttccaaagct	ttattaccag	tggcggtgtt	gcatgtttga	aatgaggtct	840
gtttaaagtg	gcaatctcag	atgcagtttg	gagagtcaga	tctttctcct	tgaatatctt	900
tcgataaaca	acaaggtggt	gtgatcttaa	tatatattgaa	aaaaacttca	ttctcgtgag	960
tcatttaaat	gtgtacaatg	tacacactgg	tacttagagt	ttctgtttga	ttctttttta	1020
ataaactact	ctttgattt					1039

<210> 3

<211> 2666

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232838.13

<400> 3

gccatctttc	cagcctcagt	cggacggggc	cggagacgct	tctggaagga	acgccgcgat	60
ggctgcgcag	ggagagcccc	aggtccagtt	caaagtaggt	aaccctgcgg	ggcgggaggc	120
ggccgagccc	gaccgcgtgc	gactcgcggg	tccctcctcc	tggggccacg	atggctgtaa	180
tggggccccc	catccacatt	ctttgtttta	agtgagcctg	tggtggttaa	agttccgtga	240
ctctgggata	ttgagaggtg	aagtgttttag	ggtttacttc	caaaatgtgt	ttttcaacag	300
cttgatttgg	ttggtgatgg	tggtagtgga	aaaacgacct	tcgtgaaacg	tcatttgact	360
ggtgaatttg	agaagaagta	tgtagccacc	ttgggtgttg	aggttcaccc	cctagtgttc	420
cacaccaaca	gaggacctat	taagttcaat	gtatgggaca	cagccggcca	ggagaaattc	480
ggtggactga	gagatggcta	ttatatccaa	gcccagtggt	ccatcataat	gtttgatgta	540
acatcgagag	ttacttacaa	gaatgtgcct	aactggcata	gagatctggt	acgagtgtgt	600
gaaaacatcc	ccattgtggt	gtgtggcaac	aaagtggata	ttaaggacag	gaaagtgaag	660
gcgaaatcca	ttgtcttcca	ccgaaagaag	aatcttcagt	actacgacat	ttctgccaaa	720
agtaactaca	actttgaaaa	gcccttcctc	tggcttgcta	ggaagctcat	tggagaccct	780
aacttggaat	ttgttgccat	gcctgctctc	gccccaccag	aagttgtcat	ggaccagct	840
ttggcagcac	agtatgagca	cgacttagag	gttgctcaga	caactgctct	cccggatgag	900
gatgatgacc	tgtgagaatg	aagctggagc	ccagcgctag	aagtctagtt	ttataggcag	960
ctgtcctgtg	atgtcagcgg	tgcagcgtgt	gtgccacctc	attattatct	agctaagcgg	1020
aacatgtgct	tcactctgtg	gatgctgaag	gagatgagtg	ggcttcggag	tgaatgtggc	1080
agtttaaaaa	ataacttcat	tgtttggaac	tgcataattt	gctgttttgg	aacgcagttg	1140
attccttgag	tttcatatat	aagactgctg	cagtcacatc	acaatattca	gtggtgaaat	1200
cttgtttggt	actgtcattc	ccattccctt	tcgtttagaa	tcagaataaa	gttgattttc	1260
aaatatctaa	gcaagtgaac	tcattccctg	tttataaata	gcatttgga	accactaaag	1320
tagggaagt	ttatgcatg	ttaatatttg	atttgccttg	cttttatcac	ttaaattgaa	1380
atctattggg	ttaatttctc	cctatgttta	tttttgta	tttgagccat	gtcacacaaa	1440
ctgatgatga	caggtcagca	gtattctatt	tggttagaag	ggttacatgg	tgtaaatatt	1500
agtgcagtta	agctaaagca	gtgtttgctc	caccttcata	ttggctaggt	agggtcacct	1560
agggaagcac	ttgctcaaaa	tctgtgacct	gtcagaataa	aaatgtggtt	tgtacatatc	1620
aaatagatat	tttaagggta	atattttctt	ttatggcaaa	agtaatcatg	ttttaatgta	1680
gaacctcaaa	caggatggaa	catcagtggg	tggcaggagg	ttgggaattc	ttgctgttaa	1740
aaataattac	aaatttttgc	cttttttggt	tgaatgttag	atgcttagtg	tgaagtgtat	1800
acgcaaggaa	aatggtccat	gtttaccac	agttttcagg	tactcctaga	ctttaaagat	1860
gtcttgaaac	tttaagttct	tcagcagttc	acactacacc	gtttttttgt	tgttttttcc	1920
cccccgagg	ggtttttttg	tagggcagca	cagcagagca	ggacatggat	gaaatactag	1980
gaatatgcac	agtggggcag	tgtgggggct	tctcagtaat	ggagaacagt	tggtgaaact	2040
tttttttttt	tttaactaag	catttaattt	atcttgcata	ttttccacat	ttaaaaatga	2100
attaggtcta	ttaggataat	taggagtttg	atcccatcaa	cactattctt	gtagcagtta	2160
ggaatcttga	gctatttttt	tctcatacga	ttactatagt	ccagttttacc	aaagttttct	2220
ttagatgtct	gataatcttg	agatgattgc	ttaccttaaa	aggatatagaa	aggatcactt	2280
aaatatatgg	aaaaatgaaa	taagggtgaa	gctgaataaa	gttctactta	ctgtattaac	2340
tggcaacagt	tgagtttctt	aagatctgaa	ttgctgtgta	tgttacgctg	tattcagaac	2400
cagtttcta	ccagcctgtg	agatgggaag	ttttttcccc	ataattggga	tgaacttttt	2460

PA-0024 US

```
cattcaggta ttttgaattg aagggtgtatg tgttgtttgt aacottgtgg agattgcaag 2520
tgggtgttgac attctggatc ttctatgtaa cagttgaaat ttggaagtga cgtcacttac 2580
ctgtctaacg tgggtgtggga gagaatttac aagtccttta ttgaaagaat aattgttgca 2640
aaatatattg cttctacttt gcctgg 2666
```

<210> 4

<211> 4626

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350407.1

<220>

<221> unsure

<222> 4607

<223> a, t, c, g, or other

<400> 4

```
gggggggagcc ttagtcattt ccccgctcca gcctgctccc gcccgagcgc gcactcacgg 60
ccgctctccc tctcgtctcc gcagccgcgg cccatggagc ccgcccggccc ggcccccgcc 120
cgctcggggc cgctgctctg cctgctgctc gcccgctcct gcgcctggtc aggagtggcg 180
ggtgaggagg agctgcaggc gattcagcct gacaagtcgc tgttggttgc agctggagag 240
acagccactc tgcgctgcac tgcgacctct ctgatccctg tggggcccat ccagtgggtc 300
agaggagctg gaccaggccg ggaattaatc tacaatcaaa aagaaggcca cttcccccg 360
gtaacaactg tttcagacct cacaaagaga aacaacatgg acttttccat ccgcatcggt 420
aacatcaccc cagcagatgc cggcacctac tactgtgtga agttccggaa agggagcccc 480
gatgacacgg agtttaagtc tggagcaggc actgagctgt ctgtgcgtgc caaacctct 540
gcccccgctg tatcggggccc tgcggcgagg gccacacctc agcacacagt gagcttcacc 600
tgcgagctcc acggcttctc acccagagac atcacccctg aatgggttcaa aaatgggaat 660
gagctctcag acttcagac caacgtggac cccgtaggag agagcgtgtc ctacagcatc 720
cacagcacag ccaaggtggt gctgaccgcg gaggacgttc actctcaagt catctgcgag 780
gtggcccaacg tcaccttgca gggggacctt cttcgtggga ctgccaaact gtctgagacc 840
atccgagttc caccacacct ggaggttact caacagcccg tgagggcaga gaaccaggtg 900
aatgtcacct gccaggtgag gaagttctac ccccagagac tacagctgac ctggttgag 960
aatggaaacc tgtcccggac agaaacggcc tcaaccgtta cagagaacaa ggtggttacc 1020
tacaactgga tgagctggct cctggtgaat gtatctgccc acagggatga tgtgaagctc 1080
acctgccagg tggagcatga cgggcagcca gcggtcagca aaagccatga cctgaaggctc 1140
tcagcccaac cgaaggagca gggctcaaat accgcgcgtg agaacactgg atctaataa 1200
cggaacatct atattgtggt ggggtgtggtg tgcaccttgc tgggtggccct actgatggcg 1260
gccctctacc tcgtccgaat cagacagaag aaagcccagg gctccacttc ttctacaagg 1320
ttgcatgagc ccgagagaaa tgccagagaa ataacacagg acacaaatga tatcacatat 1380
gcagacctga acctgcccaa ggggaagaag cctgctcccc aggtctgcgga gcccaacaac 1440
cacacggagt atgccagcat tcagaccagc ccgcagcccg cgtcggagga caccctcacc 1500
tatgctgacc tggacatggt ccacctcaac cggacccccca agcagccggc cccaagcct 1560
gagccgtcct tctcagagta cgccagcgtc caggtccccga ggaagtgaat gggaccgtgg 1620
tttgccttag caccatctc tacgcgtttt cttgtccac agggagccgc cgtgatgagc 1680
acagccaacc cagttcccg agggctgggg cgggtgcaggc tctgggaccc aggggccagg 1740
gtggtctctt tctccccacc cctccttgge tctccagcac ttctgggca gccacggccc 1800
cctcccccca cattgccaca tacctggagg ctgacgttgc caaaccagcc agggaaacca 1860
cctgggaagt ggccagaact tcctgggggtc caagaactct tgtgcctccg tccatcacca 1920
tgtgggtttt gaagaccctc gactgcctcc ccgatgctcc gaagcctgat cttccagggt 1980
ggggaggaga aaatcccacc tcccctgacc taccacctc ccacacacac acaccacaca 2040
ccaccactac caccaccacc caactggggc tagagtggg aagatttccc ctttagatca 2100
aactgcccct tccatggaaa agctggaaaa aaactctgga acccatatcc aggccttggtg 2160
aggttgctgc caacagtcct ggctcccccc atccctaggc taaagagcca tgagtcctgg 2220
aggaggagag gaccctccc aaaggactgg agacaaaacc ctctgcttcc ttgggtccct 2280
ccaagactcc ctggggccca actgtgttgc tccaccggga cccatctctc cttctagac 2340
ctgagacttg ccctccagtc agcactaagc aacatctcgc tgtggacgcc tgtaaattac 2400
tgagaaatgt gaaagtgca atcttgaaac tgaggtgta gaaaacttga tctgtggtgt 2460
```

```

tttgttttgt ttttttttctt aaaacaacag caacgtgato ttggctgtct gtcattgtgtt 2520
gaagtccatg gttgggtctt gtgaagtctg aggtttaaca gtttgttgtc ctggagggat 2580
ttttttacag cgaagacttg agttcctcca agtcccagaa ccccaagaat gggcaagaag 2640
gatcagggtca gccactccct ggagacacag ccttctggct gggactgact tggccatgtt 2700
ctcagctgag ccacgcggct ggtagtgcag ccttctgtga ccccgctgtg gtaagtccag 2760
cctgcccagg gctgctgagg gctgcctctt gacagtgcag tcttatcgag acccaacgcc 2820
tcagtctgct catccgtaaa gtggggatag tgaagatgac acccctcccc accacctctc 2880
ataagcactt taggaacaca cagagggtag ggatagtggc cctggccgtc tatcctaccc 2940
ctttagttag cgtcccccac ccggctttct gagctgatcc ttgaagaaga aatcttccat 3000
ttctgctctc aaaccctact gggatcaaac tggataaaat tgaagacagc cagggggatg 3060
gtgcagctgt gaagctcggg ctgattcccc ctctgtccca gaaggttggc cagaggggtg 3120
gaccaggtta ccctttaacc cccacccttc cagtgggtg tgagggcctg accgggcccc 3180
gggcaagcag atgtcgcaag cctattttat tcagtttca ctataactct tagagttgag 3240
acgctaattg tcatgactcc tggccttggg atgcccagg gatttctggc tcaggctgta 3300
aaagtagctg agccatcctg cccattcctg gaggtcctac aggtgaaact gcaggagctc 3360
agcatagacc cagctctctg ggggatggtc acctggtgat ttcaatgatg gcatccagga 3420
attagctgag ccaacagacc atgtggacag ctttggccag agctcccgtg tggcatctgg 3480
gagccacagt gaccagcca cctggctcag gctagtcca aattccaaaa gattggcttg 3540
taaaccttcg tctcctctc ttttaccag agacagcaca tacgtgtgca cacgcatgca 3600
cacacacatt cagtatttta aaagaatggt ttcttgggtc cattttcatt ttattttatt 3660
ttttaattct tggaggggga aataaggga taaggccaag gaagatgtat agcttttagt 3720
ttagcctggc aacctggaga atccacatac cttgtgtatt gaaccccagg aaaaggaaga 3780
ggtcgaacca accctgcgga aggagcatgg ttccaggagt ttattttaag actgctggga 3840
aggaaacagg ccccatcttg tatatagttg caacttaaac tttttggctt gcaaaatatt 3900
tttgtaataa agatttctgg gtaataatga gtccctccgg tgttcagtat tcttgtcttt 3960
gtgagtgcgt cccggggccg cctcggggcc tgctgcct cctgccaaag cctggaagag 4020
gattgaatgg accccagggt ttggaacaa cctacagcat ttgagccct cacgtagggt 4080
ttagagacgt acaatttttg tttgccctgg ctcagaagga gccgtgtgtaa ggttgagata 4140
aaattccata tagacaactg agtttggatc tgggtctctg tgctttgtag ctgtgggagt 4200
tcaaacagca cctcttttag acttggggcc cgcgtcggca caatggggga ggaatagtc 4260
ctgcccagggt gactgtgtgg attcaaggag cttggaagca ctgagcccac gcttggcact 4320
gggtaggcca tcactgaggc ttgtgtcttt ccttctgcc ctgaccctgc atagctgagt 4380
ctcgtggcct ctcaccactg atgggatctc ggacaccgg ctcaccctcc tcctggggcc 4440
tcaacttctc tccccacaa atgcagacat ctaatgcttg tcctgtaata tccttgccag 4500
atgactgatg tcaagtgtct gtttatagtg ggtgctcaat aaatgttagt ttcctttcta 4560
tccctccatt agatcattaa tgatattagt ggttaattat taataangtt aaggcataaa 4620
tatgtc

```

<210> 5

<211> 3637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350454.2

<400> 5

```

cagccccctc ggcaggctcc gccagcgtc gctgcggctc cggccccgga gcgagcgccc 60
ggagctcgga aagatgcggc gcccgcgcg gcttgggggt ctgggggat ccgggggtct 120
ccggtgctc ctctgctcc tgetgctgag cagccgccc gggggtgca gcgcggttag 180
tgcccacggc tgtctatttg accgcaggct ctgctctcac ctggaagtct gtattcagga 240
tggttgttt gggcagtgcc aggtgggagt ggggcaggcc cggccccctt tgcaagtcac 300
ctccccagtt ctccaacgt tacaagggtg gctccgacaa ctcatgtccc aaggattgtc 360
ctggcacgat gacctcacc agtatgtgat ctctcaggag atggagcgca tccccaggct 420
tcgcccccca gagccccgtc caagggacag gctctggctt gcaccaaga gacctggctc 480
tgctggagag ctgcttttac aggacatccc cactggctcc gcccctgctg ccagcatcg 540
gcttccacaa ccaccagtgg gcaaagggtg agctggggcc agctcctctc tgtccccctc 600
gcaggctgag ctgctccgc ctctcttggg gcacctgctg ctgccccac agcctcccca 660
cccttcaact agttacgaac ctgccttget gcagccctac ctgttccacc agtttggctc 720
ccgtgatggc tccagggtct cagagggctc cccagggatg gtcagtgtcg gccccctgce 780

```

```

caaggtgtaa gcccctgccc tcttcagcag aactgcctcc aagggcatat ttggggacca 840
ccctggccac tcctacgggg accttcacag gccttcacct gccagcttt ttcaagactc 900
tgggctgctc tatctggccc aggagttgcc agcaccagc agggccaggg tgccaaggct 960
gccagagcaa gggagcagca gccgggcaga ggactcccca gagggctatg agaaggaagg 1020
actaggggat cgtggagaga agcctgcttc cccagctgtg cagccagatg cggctctgca 1080
gaggctggcc gctgtgctgg cgggctatgg ggtagagctg cgtcagctga cccctgagca 1140
gctctccaca ctctgaccc tgcctgcagct actgcccagg ggtgcaggaa gaaatccggg 1200
aggggttgta aatgttgagg ctgatatcaa gaaaacaatg gaggggcccgg tggagggcag 1260
agacacagca gagcttcag cccgcacatc ccccatgcct ggacacccca ctgccagccc 1320
tacctccagt gaagtccagc aggtgccaa cccctgtctcc tctgagcctc ccaaagctgc 1380
cagacccccct gtgacacctg tctgtctaga gaagaaaagc ccactggggc agagccagcc 1440
cacggtggca ggacagccct cagcccgcc agcagcagag gaatatggct acatcgtcac 1500
tgatcagaag cccctgagcc tggctgcagg agtgaagctg ctggagatcc tggctgagca 1560
tgtgcacatg tcctcaggca gcttcacaa catcagtgtg gtgggaccag cctcacctt 1620
ccgcatccgg cacaatgagc agaacctgtc tttggctgat gtgacccaac aagcagggt 1680
ggtgaagtct gaactggaag cacagacagg gctccaaatc ttgcagacag gagtgggaca 1740
gagggaggag gcagctgcag tccttcccc aactgcgcac agcacctcac ccatgcgctc 1800
agtgtgctc actctgggtg cctggcgagg tgtggctggg ctgctgggtg ctctggctgt 1860
ggctctgtgt gtgcggcagc atgcgcggca gagcgctgg gacgctgtgc cagccctggg 1920
gcctgagggg gcccatggtg acactacct tgagtaccag gacctgtgcc gccagcacat 1980
ggccacgaag tccttggtca accgggcaga gggctccacc gagccttcac gggtgagcag 2040
tgtgtcctcc cagttcagcg acgcagccca ggccagcccc agctcccaca gcagaccccc 2100
gtcctggtgc gaggagccgg cccaagccaa catggacatc tccacgggac acatgattct 2160
ggcatatag gaggatcacc tgcggaaccg ggaccgcctt gccaggagt ggcaggccct 2220
ctgtgcctac caagcagagc caaacacctg tgccaccgcg cagggggagg gcaacatcaa 2280
aaagaaccgg catctgact tcctgcctta tgaccatgcc cgcataaaac tgaagggtga 2340
gagcagccct tctcggagcg attacatcaa cgcagcccc attattgagc atgacctcg 2400
gatgccagcc tacatagcca cgcaggggcc gctgtcccat accatcgagc acttctggca 2460
gatggtgtgg gagagcggct gcaccgtcat cgtcatgctg accccgctgg tggaggatgg 2520
tgtcaagcag tgtgaccgct actggccaga tgagggtgcc tccctctacc acgtatatga 2580
ggtgaaccct gtgtcggagc acatctggtg cgaggacttt ctggtgcgga gcttctacct 2640
gaagaacgtg cagaccagag agacgcgcac gctcacgcag ttccacttcc tcagctggcc 2700
ggcagagggc acaccggcct ccacgcggcc cctgctggac ttccgcagga aggtgaacaa 2760
gtgtaccggg ggccgctcct gcccacatcat cgtgcactgc agtgatgggt ggggcacgcc 2820
cggcacctac atctcatcg acatggctct gaaccgcagt gcaaaaggag tgaaggagat 2880
tgacatcgct gccaccttg agcatgtccg tgaccagcgg cctggccttg tccgctctaa 2940
ggaccagttt gaatttgccc tgacagccgt ggcggaggaa gtgaatgcca tcccaaggc 3000
cctgccccag tgagacctg gggcccttg gcgggcagcc cagcctctgt cctcttttgc 3060
ctgtgtgagc atctctgtgt accactcct cactgcccc ccagccacct cttgggcatg 3120
ctcagccctt cctagaagag tcaggaaggg aaagccagaa ggggcacgcc tgcccagcct 3180
cgcatgccag agcctggggc atcccagagc ccagggcac ccatgggggt gctgcagcca 3240
ggaggagagg aaaggacatg ggtagcaatt ctaccagag ccttctcctg cctacattcc 3300
ctggcctggc tctcctgtag ctctcctggg gttctgggag ttccctgaac atctgtgtgt 3360
gtccccctat gctccagtat ggaagaatgg ggtggagggt cgccacaccc ggctccccct 3420
gcttctcagc cccgggctg cctctgactc acacttgggc gctctgcct cctggcctc 3480
acgcccagcc tcctccacc accctccac catgcgctgc tcaacctctc tccttctggc 3540
gcaagagaac atttctagaa aaaactactt ttgtaccagt gtgaataaag ttagtgtgtt 3600
gtctgtgcag ctgcaaccca gaaaaaaaaa aaaaagg 3637

```

```

<210> 6
<211> 2270
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 215696.7

```

```

<220>
<221> unsure
<222> 1487-1535

```

PA-0024 US

<223> a, t, c, g, or other

<400> 6

```
gggggcagcgg gcggcggcag cagtggccgc acatctggat ggaagcgagc tttgtccaga 60
ccaccatggc tctggggctg tctccaaga aagcgtctc tcgcaacgtg gctgtggagc 120
gtaagaacct gatcaccgtg tgcaggttct ctgtgaaaac gctgctggag aagtacacag 180
cggagcccat cgatgactca tcggaggagt ttgtcaattt tgcagccatt ttagagcaga 240
tctcagcca ccgcttcaaa gcctgtgccc cagcaggctc agtgagctgg ttcagctcag 300
acgggcagcg gggcttttgg gactatatcc ggctggcctg cagcaaagtg cccaacaact 360
gtgtgagcag catcgagaac atggagaaca tcagcacagc ccgggccaag ggccgggcat 420
ggatccgggt ggcactgatg gagaagcgca tgtcagaata catcaccacg gctctgcgtg 480
acaccggac caccagacgg ttctatgact ctgggccaat catgctgcgg gatgaagcca 540
ccatcctcac cggaatgctg atcggactga gcgccatcga cttcagcttc tgtctaaagg 600
gggaagtcct ggacggggaag acccccgctg tcatcgatta caccgacctac ctaaagttca 660
cgcagagcta cgactacctg acggacgagg aggagcggca cagcgccgag agcagcacga 720
gcgaggacaa ctgcgccgag caccgctacc tcccgcctcg caccgatgag gacagctggt 780
acagcaagtg gcacaagatg gaggcagaagt tccgcctcgt ctacgcgcag aagggtctacc 840
tggaggagct ggtgcgtctg cgcgagtcgc agctgaagga cctggaggcg gagaaccggc 900
ggcttcagct gcagctggag gaggcggcgg cgcagaacca gcgcgagaaa cgggagctgg 960
aaggcgtgat cctggagctg caggagcagc tgacaggtct gatccccagt gaccacgccc 1020
ctctggccca gggttccaag gagctcacta ccccctggg caatcaatgg ccctcactgg 1080
gaacgcttaa tggggccgag ggccgagca actccaagct ctaccggaga cacagcttca 1140
tgagcacgga gccgctgtca gctgaagcca gtctgagctc ggactccag cgctgggag 1200
agggcacgag ggacgaggag cccctggggtc ccacgggaag ctacagagcca aattagtggc 1260
tcccttcgag cgaatgccca ggacttcaac gcatgcactt tgtgttgacc tcatccctgg 1320
cttcaccttg gtttttccca tctagttct cctatgcct gaatatcctg tcttttcttt 1380
tttataagca accacactgt attggatgac cctagatctt ctttgagaca aggcaggctg 1440
tggccatgta gcccacacac actgtgtttg tgattgtctg tgtgtcnnnn nnnnnnnnnn 1500
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngtccg ttctctgtat cccagtgct 1560
tggaacagag cgagtgtca ctgtgtattt aataaatgga caaagagaga ggatgacct 1620
cacggggaga cagagacatc aactgacgat tacaatacag tgtccccagc acggtgcctg 1680
gcacaggcag gtgcttaacc aaagtttaac tgaaaatggc aaatgctgtg gaatatgcca 1740
aggtctcctg ggggtgact tgagggtgc cccttactg cccacccctc taccaactcc 1800
cacacatgta gactggtcgc ttggcctcac ctgcccctc tcccagggga aggacccac 1860
gccctccatg ctgggcctct gcggctccct ggccctccatt cccagctgca agtccctggc 1920
gagcttcaaa tccaacgagt gcctggtgag cgacagtccc gagggcagcc cagcactgag 1980
cccagctga ggaacagcat gggcagtgc agcccccct gccaggggcc atggacacct 2040
gccacctttc ttcaacaaga gtcccccaat ccaggctacc cttccagaga acgctacca 2100
cccagccagg gttctctcgg ggaagatctc gtctgtcac cttagctttc tgccttgga 2160
gcacgggctg cggaaagaaag cacgctgggc caggaggcag gggtgcccaa gccacaggga 2220
gcccctgggg aagcctgctc cattcttctg gtgacctgg cgctccttca 2270
```

<210> 7

<211> 8137

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 411474.10

<220>

<221> unsure

<222> 3488-3788

<223> a, t, c, g, or other

<400> 7

```
ccggcgccca ttttgggtgg aagcgatagc tgagtggcgg cggctgctga ttgtgttcta 60
ggggacggag taggggaaga cgtttgtct cccggaacag cctatgctca ttcctttctt 120
tcgattaccc gtggcgcgga gagtcagggc cggcggtgc ggcagcaagg gcggcggtag 180
cggcgggcggc agctgcagtg acatgtccag catgaatccc gaatatgatt atttattcaa 240
```

```

gttactttctg attggcgact cagggggttgg aaagtcttgc cttctttctta ggtttgcaga 300
tgatacatat acagaaagct acatcagcac aattgggtgtg gattttcaaaa taagaactat 360
agagtttagac gggaaaacaa tcaagcttca aatatgggac acagcaggcc aggaaagatt 420
tcgaacaatc acctccagtt attacagagg agcccatggc atcatagtgt tgatgatgt 480
gacagatcag gagtccctca ataatgttaa acagtggctg caggaaaatag atcgttatgc 540
cagtgtaaaat gtcaacaaat tgttggtagg gaacaaatgt gatctgacca caaagaaagt 600
agtagactac acaacagcga aggaatttgc tgattccctt ggaattccgt ttttggaaac 660
cagtgtctaa aatgcaacga atgtagaaca gtctttcatg acgatggcag ctgagattaa 720
aaagcgaatg ggtcccggag caacagctgg tgggtgctgag aagtccaatg ttaaaattca 780
gagcactcca gtcaagcagt caggtggagg ttgctgctaa aatttgcctc catccttttc 840
tcacagcaat gaatttgcac tctgaaccca agtgaaaaaa caaaattgcc tgaattgtac 900
tgtatgttagc tgcactacaa cagattctta cegtctccac aaaggtcaga gattgtaaat 960
gggtcaatact gacttttttt ttattccctt gactcaagac agctaaactc attttcagaa 1020
ctgtttttaa cctttgtgtg ctggtttata aaataatgtg tgtaatcctt gttgcttttc 1080
tgataccaga ctgtttcccg tggttgggta gaatatattt tgttttgatg tttatattgg 1140
catgtttaga tgtcagggtt agtcttctga agatgaagtt cagccatttt gtatcaaaca 1200
gcacaagcag tgtctgtcac tttccatgca taaagtttag tgagatgtta tatgtaagat 1260
ctgatttgcct agttcttccct tgtagagtta taaatggaaa gattacacta tctgattaat 1320
agtttcttca tactctgcat ataatttgtg gctgcagaat attgtaattt gttgcacact 1380
atgtaacaaa acaactgaag atatgtttta taaatattgt acttattgga agtaatatca 1440
aactgtatgg tgataagtat tgttttgatt cttatgggta aagggaaata gagccttgca 1500
ttatattcaa cacagccatt tgtgtgtgca caatgcaaac taaggatttc tagacctatc 1560
ttagagcagc atccagtatt tgccttctag ataatatgcc caataacatg acctagaggg 1620
gcttctgtgc tgtgtaggga tttaaccaac cctgttgggt cagggagctc aaactatatg 1680
taaaacaagt ttagaatgta tgctatctag cccgttatct ctgattcctc tctaaaacca 1740
tttgaaatag cttcattgat caacatttca taaatgcac tggtgtagag gtagaaagca 1800
gcacctttcc taattggcaa atgatcagac taatgtgtgc taatgttttt cttccatgct 1860
ttcagtcaga ttcaactatt ttatcctcca cagttgctta acttgggtgtt ggaggagggt 1920
ttaagcatta agataggaag caggaaattt gattgctcta aatttagaaa ttatatccct 1980
aaaaattaaa acatgaatac tgggtggtaa tgataattga ggcaaattga tttattttgg 2040
tgacattttg catatatgaa gattttctga aataggacct tcaagatcct aggggtttt 2100
gtttggtttt taattgtgag gaataaaaaa tcttctgccc acactggcat ttaagggtga 2160
ctgagggtcaa acgttgtttc cttagggtga aatagcagcc aaaacattct tcacgcaggg 2220
gcttgggata tggctgctgg caacacattt tgttgtgggc tcttaatttt aatgataaaa 2280
tttaagctaa acacaagcca aaaatgaata ggttttttta atttttattt ttcactaaac 2340
aggcaattga aatacatggt acaaaaataa gtggaagat aattgtaaaa tgaaattggac 2400
agaattttc attttccatc tatgaaaatt tcacaataaa aatcatagtt tactttgtat 2460
tataggcgtg cttggtggat ctattcatcc tcacataagg caactgacaa attcctgaag 2520
ttaccaatag ttattttggt gaagatcttt aatgcttcag aagttttgtt tttgccttaa 2580
tacagtataa agggggaaaag agttcagaaa ctattttcta aagtagctaa atgacacaaa 2640
acaaatgtca agatactgtg atgccatgcc gtgcacttca tttttacaca gtaaaagtgt 2700
tttaaattgt cagcttatcc ttggtgagtt agcggaaaca ttacatgaac ttaagatgag 2760
catattttca gacttaagtt tggaaaattc cagcgttctt tccccatgg cagtataatg 2820
tgggattttac aacaaatttc agcatgcctt aagatttgc tctatgtata cgccaataaa 2880
tgtggttctg gaaaaaatat atacccttt ataccctcat tttcaagtac aaacggttca 2940
aagctactac aggtttttaat aatctgttca cttagtaaag ggaattacca cttgttctaa 3000
atataagggt ctgccataaa ttagtttaca tagtgaagaa gagtgttctt aaatctaagc 3060
agctgcacac tctgtgaaat cctttcagaa tgatagtcac tgtggtctga gcagtaattt 3120
cctattcttc gacctggat tgaatttccc ttagectaca tcttgcttt ccagcatatc 3180
ttacctcaaa ccttctttgt gttccattcc cacctaaget tcaaaatagc cctgtgttga 3240
cgctgtcttc catttgcgta gcttacctat ggatctccaa gaaccagat cttgaaactg 3300
ctgatccagc tttgagtatc atcacttccc tgtggattta acttccatta attttaaggg 3360
actactaagt tattccagtg tggcatcaca gtgcagttag caagctcagc tacttgactc 3420
taatttggcc atgtttgtc atagaaatgc tgcgtggcagc atcttactag gctgaaacaa 3480
tttcagcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3780
nnnnnnnnnnn cagcttgagt ttttaaggtaa gtcttaaact taaagcacgg cggtataatt 3840
aacagttgtg ttgatactct tcagtagcat tcacagccag gtccaggag ttagcacct 3900

```

ttagtctcac	cttattcaga	ggatgaacaa	aaatatctta	gatcatctct	aggtaaggta	3960
gtactttctt	gggaaacagg	gtatttgtga	acatttctgt	caaattcctg	tcagttgaag	4020
ctgattatta	gttgaatggg	aatagaatgc	cacattctgc	attcaattag	tataatattg	4080
gccaatgtgt	ttctataggg	ttttcatctc	caacttttat	gctaattaat	acacttctat	4140
gcctgtcaaa	tattagtaaa	taaattgggt	taatttccta	agggtctatt	agtaacatac	4200
tcagtggaag	gacatgttcc	tacttataaa	tatacatcta	agagaaggta	aaatatatca	4260
atttaagaag	aggccgtcag	acatctctac	ctttttaacc	aactctaggt	tttcaagaat	4320
gttttacata	cagggtttata	attgacaatt	atttgctaga	gtgggttttt	ccttttaaa	4380
tctcagtggt	tatggaacta	agatgattaa	tatggcaaac	tcataagcca	ttttaatttt	4440
gatcatgccc	ttaagcatta	tgataaagca	taccacagca	gcacaggcca	cttgaaatac	4500
tgcattttat	gtgtagctac	tggtgaagag	ctaactctta	aagaatttaa	tggtctattt	4560
ccagtgacta	taaagtctca	gaaattctga	agcagaaaag	tcacattaat	aataggactt	4620
tagtttccat	tgttactgtg	ctttctctct	tccagggttc	ttcatggccc	aacagaactt	4680
taaaagtgtc	tttctgtaga	atctgcagtt	accagcaata	actgatcatc	ttgctgcaaa	4740
aagctataga	attgatgctt	tgaatgggtg	atccatagtt	tttttttttt	tttaatacaa	4800
gtacttatgt	gtcaatgcca	aagcaacgaa	gaattcccct	ttttccttca	ctattgacag	4860
cttcagtttc	tgtacttact	gtgtcatcct	atccattccc	ttccctgagc	ctggactgct	4920
cttccaaggg	agactaggag	tgaaggagg	agtcctccca	aagttaccct	ttaagcttga	4980
taattagctc	catagccatg	ctaaagcatg	actgtagatc	cccaagtccc	tgacacattt	5040
tcttctaaga	aactgggttag	ccaagaaagt	aaagacgtaa	gccctgaaga	tggaacaaag	5100
tgtcataatc	tcccaaagtc	atctgtatag	atgcttcatt	taaccctttt	tcttttgcag	5160
acaaagggtt	aaaaatctct	tctttctacc	tatatcttta	aagagggatt	gacaagccca	5220
aatttctctt	tatgaaaaga	cccaagggtt	ctggccaaca	attcactttt	ttcagtctct	5280
taggtcctct	tcgatgcctg	agaatattga	gtattcggaa	tctcctacca	gcccttggtg	5340
aatgacccta	ccaggtggaa	tagtttgagc	tttatctgct	cttttttaac	gggatagagg	5400
ggaaggcaac	acgtcttatt	ttatcaaaaa	ttgcaaagct	acacgctctt	tgtggagaag	5460
cacaaaagg	aaaaccttag	tttggaagga	ttcattgtaa	ataaaaaatg	taactcagcc	5520
ctccattcag	ggaggagaaa	ggcattttta	agctagtata	ttgaagggtt	cccccttgac	5580
ttcagtggtg	aatggctctt	gcaaggactt	cttgaaggat	ttttttctca	ctagccagtg	5640
tttgcccgag	aggttgccac	tctgctcgag	aagatgccag	gttaaaccct	ttcacatggg	5700
tgtccatttg	ccgccatggg	ctttttgtca	gggataaagg	tgacagccag	cagcatgtcc	5760
agagaggcca	agatagagtc	atacaggcga	tctgcgtggc	tctccagctc	accagactgc	5820
tttgcatcc	tcccaaggac	atcctctaaa	actgggggtg	tctccaacag	gcactgaaga	5880
agaatctccc	ccttctgtaa	gacactctcc	gtcagagact	gatgttcac	tatatctttc	5940
ttaaattgcc	ggtaaagctg	cagagaagac	ttgagacttg	taagattgga	cctggctgca	6000
gtcccggtgg	cagtaacatc	tgcaacatta	tacagccagc	agatcagctc	ttccagctga	6060
cagcaaaatg	tcttcacaca	ttgcaccagt	gattcttttc	cctgtttctc	tcctttctct	6120
ggaagctgcc	cttcaacatc	tgggtctgag	aatggccacc	ggtccaacct	agctggcaag	6180
gaggggctg	ttttcagcag	tccagaggag	accccgaggg	cctggctgct	ccccagactg	6240
ccttcccctg	cggagtcgtg	ggcacggacg	aaggagcgca	ggaaacaggg	attctggccc	6300
tcaggatccc	cagatccttg	gagggcagct	ccagggggaa	gctggctttg	gctggagctt	6360
gaagggaagg	aagctggccc	atcactgtct	gacacttcca	aggggctctg	ccctttgata	6420
tcccagctgg	gcagggtaac	caaggtagta	atggtactta	gatacgaac	cagcttagaa	6480
acctgtgtca	gccgagcggg	gagggcaaga	tactcgatcat	cactttccac	ttctctctct	6540
gatttccacc	tagactctgt	gcaggtaggg	cgccgggcac	tctggctggg	cctcttctct	6600
ctctctggcc	tgggcgaggg	ccacctctct	tcccgtgtcc	ttagctgggg	agagcccata	6660
tcaagggtgt	tgcctatagt	cagccgggtc	ttcgcacccc	tcagggtggg	ctctctgcgc	6720
tcccaacgag	catccctact	gcctgggggt	ctgggggtag	atgcagggtg	gtcccaagat	6780
gccaaagcca	tgccaccctg	tttctgggg	actctggagg	gccactgctt	aaggcttggc	6840
tctctgggcc	cagaaaatgg	cagggcagtg	gcctctgctg	gtgggcagtt	gggggagaca	6900
ttagtaggtg	atttgagggt	gcttgctgga	gagacagaga	agctatccag	gtctaccccg	6960
gagtcctgca	ggacagggtc	agctggcaca	cggctatcaa	ggtgcttttg	gagctgaggc	7020
ccgggcctca	gtgggtaagt	atagtcaagc	agatcttcat	actctttatt	tggtgtccag	7080
agaggggagt	ggcggtcggg	tgatggaggc	agggaatctg	gcagcacaca	ggcccagtac	7140
tcagcctgga	aggagaggcg	tctcctgcct	agccagaag	catcacccc	agagacaca	7200
ggctgtgggt	accactgggg	ccgaggctct	agccccacca	cagaggaagg	ttcctggggg	7260
acgaccggct	ccagggagga	ggagaccttg	gccagagaac	caccacgagg	ctccgccctc	7320
tctgtgtgac	cctgggagact	gctgcctgtg	gaggaagcag	agatgctgca	gctggaaggc	7380
tgagctgcgg	aacctgggct	cagcacggac	ttccactgtg	acaggcaaga	gagacctgag	7440
ctgtgaggct	gctggctgag	gtccagtgcc	tggggcaaat	ctgctaggga	tggtatcatc	7500
tccgtatcag	catcatgtcc	tgagcaaat	gttgtgttcc	tgggaaggct	cagagtctga	7560

PA-0024 US

gggaactcct	cggaggaaga	aagcttggtc	tttccacct	ggctttcccc	ggagagcaga	7620
aggtctccag	accccatggt	ggcaggaggc	aggccactga	gtgcaggctc	agacctctca	7680
gctacgggct	ctctgtttggc	atcactggcc	tgtggctggt	gggctctaga	ggggccgcca	7740
gggtcagtc	caatccagca	agtaggggca	ggtatccctt	ctgcccccca	tacaggggag	7800
atgagccctc	cctcaggctt	ccaggcggtg	gggctgctcc	ccactcatgg	gccctgggat	7860
gtccagctcc	cgctccctgc	agctccctct	cccataggac	tgggcctttg	tgtcttcaga	7920
tgttccgct	tctgcctttt	cttcacccag	ggccattgag	actccctacc	taggtcaggg	7980
ttctgctgaa	gacttcagct	tccgcaccgc	gaaaccttcg	cacgtccgga	gcggtctcag	8040
cagcccatg	cgctggcccc	gagctggcgg	accctgactg	caactgcggc	cctccaaccg	8100
cagcccaaaa	cgcgcagggc	aggaccgagc	gccaacc			8137

<210> 8

<211> 4877

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 026470.4

<400> 8

gccgccaccg	ccgcgccgcc	gccacagccg	ccagccgctt	cgcgttcggc	gggggaggag	60
ttggaggcgg	agaagaaggc	ggtggtggcg	ggtggagggt	cgagcgtgt	tctcgctccg	120
gagccgctgc	acatttcgga	atcttctgcg	gcttgccat	agtgtgaata	aaaactaaat	180
cacatctata	attctactga	actggtcaca	cagacgctgc	catatatgtc	acagtacact	240
gaaaaggagc	cagcagcaat	ggaccaagaa	tctggttaagg	ctgtctggcc	caaaccagca	300
ggaggggtatc	agacaattac	aggcaggaga	tatggaagaa	gacatgctta	tgctcagttt	360
aaaccatgta	tgaccagaca	tgaagaagc	ttaggtcggg	ctggtgatga	ctatgaagt	420
ttggaactag	atgatgttcc	aaaggaaaa	tcctcaggtt	ccagtccttt	ggatcaagtt	480
gattcttctt	taccatgtga	acctatattt	gaaaaaagt	aaacagaaat	tcccacttgt	540
ggttcagcat	tgaatcaaac	cactgagagc	agtcattcct	ttgttgagc	acatcacagt	600
gaggaaggca	gggatacctt	aggaagcagt	acaaatcttc	ataatcactc	tgagggagag	660
tatattccag	gagctttag	tgcttcaagt	gtccaaaatg	gaattgcatt	ggttcataca	720
gactcttatg	atccagatgg	caaacatgga	gaagataatg	accatcttca	actttctgca	780
gaagtgcgtg	aaggtagtag	ataccaggaa	tcattaggca	atacagtatt	tgagttggaa	840
aacagagagg	caagggcata	cactggtctt	tcaccaccag	ttccctcatt	taactgtgaa	900
gtaagagatg	agtttgaaga	gttagattct	gtaccattag	tgaaaagtct	tgctggtgat	960
actgagtttg	tccatcagaa	tagccaggaa	attcagaggt	cttctcaaga	tgaaatgggt	1020
agtacgaaac	aacaaaataa	tactagccag	gaaagacaga	cagaacattc	acctgaagat	1080
gcagcctgtg	gtccagggca	tattttagt	gaacgaaata	ccaatgatag	ggaaaagaac	1140
catggaagtt	ctcctgaaca	ggtagttagg	ccaaaagtta	gaaaactgat	aagttcaagc	1200
caggtggacc	aagaaacagg	ttttaatagg	catgaggcga	aacaaagaag	tgttcaaaga	1260
tggagagagg	ctttggaagt	tgaggaaagt	cgctcagatg	acctcttaat	aaaatgtgaa	1320
gaatatgatg	gagagcatga	ctgtatgttc	ttggatccac	catactcaag	agttattaca	1380
caaagggaaa	cagaaaataa	ccaaatgaca	tcagaaagt	gagccacagc	gggaaggcaa	1440
gaagtggata	acaccttttg	gaatggctgt	ggagattatt	accaactcta	tgacaaagat	1500
gaagatagtt	ctgaatgcag	tgatggggaa	tggctctgct	ctttgectca	tcgattttct	1560
ggtacagaaa	aagatcaatc	ctcaagtgat	gaaagctggg	agactctgcc	aggaaaagat	1620
gagaatgaac	ctgagctaca	aagtgatagc	agtggccctg	aagaagaaaa	ccaagaatta	1680
tctcttcagg	aaggggaaca	gacatccttg	gaagagggag	aaattccttg	gttacagtac	1740
aatgaagtca	atgaaagcag	cagtgatgag	ggaaatgaac	ctgccaatga	atttgcacag	1800
ccagctttca	tgttgatgg	taacaataac	ctggaggatg	actccagtgt	gagtgaagac	1860
ttagatgtgg	attggagcct	atttgatggc	tttgcagatg	gactaggagt	tgctgaagct	1920
atttcatatg	tggatctcca	gttcccttacc	tacatggcac	tagaagaacg	cttagcccag	1980
gctatggaga	ctgctctggc	ccatttagag	tctcttgcag	tggatgttga	ggtgcccaat	2040
ccaccagcta	gtaaggaaag	cattgatggg	cttccagaga	cccttgttct	tgaagatcac	2100
actgctattg	gtcaggaaca	atgctgtcca	atctgttgca	gtgagtatat	taaggatgat	2160
atagcaacag	agttgccctg	tcaccatttc	tttcacaaac	cttgtgtctc	aatttggcta	2220
caaaagtcgg	gaacatgccc	tgtgtgccgc	cgtcatttcc	cacctgcggg	tattgaagca	2280
tctgcagctc	cttcctctga	gcctgatcct	gatgccccac	cttcaaatga	cagtattaca	2340
gaagcagctc	aaaccctgac	agttgaaatg	agatcagtg	atcaaagtaa	atctgcaaat	2400

```

tcctttctaaa tttcatgtgc aaataattat atataaatat atttaaaaat gctatatata 2460
gtatatgccaa tagtttagaa agaataattaa cctttctaaa ctaaatttag gtttgcagaa 2520
agtattaatc atttttaagc tgaatgttga gacagtgcac ccattttctt tagttgaata 2580
tgtttgattt aattgtaaag ccaagcttat cagttgactc tctccagaat aaataatcat 2640
ctgtgtggca tacgttattg gctttgtctg taatactgcc actaagtgat tataattaag 2700
ctgtcctgtt tgcacaaat gtaaagactg tgttcacaac cgtagtaaaa tttggtttca 2760
ttggaaatga aacaaattct aaagtatgct ttttccactag tccctttgat tttgctatat 2820
cataacctct tggttcatat gctgagaaat ttttcagaaa gtccattttt gtttaaaatt 2880
agaacttttc agaatgccaa atgaaggcta aaattttggc cagaacatta caaaagtttt 2940
aaatcgtaga cgtaactccc cctgaaataa agttaggtag taaaatcctt aatgaaacca 3000
gtggatgtgc ttaacgtaag gttagtaaag catacaaaga atctagtgtg ctcagggtct 3060
ggtacaatga gctgaattag atggccttat gaaactcttt ctaacctctt acccaacctg 3120
tttctccttg gttaaaatta tacttgaagg ccagaaacac tcatggcaca tttgtttaat 3180
attgcttata gttagtttta ggtaattttg cttctacagt attttggag gtctgaaaac 3240
ttgcacaggg tcatctttgt aattatataa ccccaaacta agatgcacaa tgtctccttc 3300
aggtgatcac acacagtggg cgagtatgtg caaacatgga cataatagtt cacttacaaa 3360
tgtgatttga tgtaacact agagaatgat gactgtagaa catttgagca agtaaaatag 3420
taaagcacat agtgagtgtg tgccgtctta actggtacat tgataattta gtttgggcac 3480
ataaaaggaa tatttatatg gcttcccaaa tgcagagtta catcttattc gtgtatttct 3540
ctgagtattt atatcccgtc tccttttttc attcttaaaa ataaatgaat tttcactgtt 3600
ggcacatatg aggcttaaat ataaggaaca taacacttgc attctaattt ttgcatatat 3660
tgtaaatgtg tctggtattt acagcaaaat actgtgtatc cttttatggg taaaacaaaa 3720
gtgaacattg catgcatgta atgtgatgaa tttgtaatth aggagtctct tggggcttct 3780
gtgacttggg aatgctttac attcaggcct taatgttgca ttagctagca tgtttccct 3840
ctgatgtata tagtcaactgt tgtataaact aatctttgct tgttttctac tctgtgatct 3900
ttccatatca tatttcatta atgacagtt agtgtcaagg agtcaaaaca gattaaaatt 3960
aatttcatgt gtatatgggt gaaatttgtg gctagtgtga tttttgtttg tttcctttta 4020
agtactgttg atcagttgtg acacttactg gttaaactta cgttgctaaa gatttctcta 4080
taataagcca cacattatat ttagactata ttaagggacc ttggttttct tctagatagc 4140
agctgtccca aagaaaatat ttcttctttg tctgttaaga tttagctatt atctgccagt 4200
tgttaaaggg ttttggttcc aaactcaacc agcaatgttg agagctgaac ttaagatagc 4260
tgttgtactt tttgctttcc atctgttact gtccttcatt cttggctccc tactatctat 4320
aaacagctgc tgtgaagaag aaaagttgaa taagagttgg cttaaatttt aaaaaagaaa 4380
aagaaaattg aggttttagg attttcatgg taacaagctc tgggtataagc taaggctggc 4440
aagttcagat actaaaatat tatttgatca tatcttggat ccttttgaaa aagttaagac 4500
tatatgaagg taaattagaa ataagtatga atattaataa aatagcattt atcttatttc 4560
tctattttat gttgtgactt aacctaatth tattttttta acattttctt atttcttata 4620
atatgaatgc tgatatttaa aggtagatct atgtgggtatt ctttgtgttt ctttaattgtt 4680
taactcttaa gattatttgt gatctggatt tatgtatttg ttagatacat acgaattgtt 4740
aaaatggaat gcaagttttt caaaagccca ggtctaaatg taatggttgg tttattgttc 4800
tataacccca gcccatcatt ttctgtgtaa atcataaaca ataaacagaa tatactcggc 4860
ggtcatttct aatattt 4877

```

<210> 9

<211> 2680

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331232.8

<220>

<221> unsure

<222> 1110

<223> a, t, c, g, or other

<400> 9

```

cacgagaaga caggaggaag aaagggagag agggccaggc agtcgcactg tgaacagaac 60
aggagaaggc gaagcggggc aaagttccct gccaccgac gccagcctgc ttggatgact 120
tgcctcgttt cataattcac ttactgtctg caccagccgg cctcagcctg gctggaccct 180

```

```

getgctgtg tggccccgag ccagagggcc ccacactccc agctgctctt ctacagatgc 240
catcaacgag caggactctg ggtggctcca ctgtctaagc ctggagagtc accgccgagg 300
gatgaggacg cgccacgccc ggggaacgag ccagctgctt tcgcgggccc aagcgcgag 360
tgccagcag ccgcgccgag cctgacaagc tgtcctctcc cctcgcgcac agggctctgc 420
gagtgaaccc gggggcgagc tccgtgctgc atggaacggc tgcagaagca accacttacc 480
tccccggga gctgagcccc ctcccgagat tccagtgtgc ctggctctcc ctccagcate 540
gtggccaaga tggacaatca ggtgctgggc tacaaggacc tggctgccat cccaaggac 600
aaggccatcc tggacatcga gcgccccgac ctcatgatct acgagcctca cttcacttat 660
tccctcttgg aacacgtgga gctgcctcgc cagcgcgagc gctcgctgtc acccaaatec 720
acatcccccc caccatcccc agaggtgtgg gcggaacagc ggtcgccctg aatcatctct 780
caggcctcgg cccccagaac cactggaacc ccccggaaca gcctgcccc tttccaccac 840
cctgagacct ccgccccaga ttccaacatc tccaagaagc tccccatcta taagcagaga 900
gagtccgtgg gaggcagccc tcagaccaag cacctcatcg aggatctcat catcgagtca 960
tccaagtttc ctgcagccca gccccagac cccaaccagc cagccaaaat cgaaaccgac 1020
tactggccat gccccccgtc tctggctgtt gtggagacag aatggaggaa gcggaaggcg 1080
tctcggaggg gagcagagga agaggaggan gaggaagatg acgactctgg agaggagatg 1140
aaggctctca gggagcgtca gagagaggaa ctgagtaagg ttacttccaa cttgggaaag 1200
atgatcttga aagaagagat ggaaaagtca ttgcccagatc gaaggaaaac ccgctctctg 1260
cctgaccgga cacccttcca tacctccttg caccagggaa cgtctaaatc ttctctctct 1320
cccgccatg gcaggaccac cctgagccgg ctacagtcca cagagtccag cccatcaggg 1380
agtgaactg gaagcccagg cctgcagatc tatccctatg aaatgctagt ggtgaccaac 1440
aaggggcgaa ccaagctgcc accgggggtg gatcggatgc ggcttgagag gcatctgtct 1500
gccgaggact tctcaagggt atttgccatg tcccctgaag agtttgcaa gctggctctg 1560
tggaagcgga atgagctcaa gaagaaggcc tctctctctc gatggcccc acctgctccg 1620
ggacggcccc ctaccctctg ctgcttcagg gtttttcccc ggcgggttgg gaggggcagg 1680
aggtgggggt gaaatagggt gggctccttt cctcaggtag agtggggggc caaaacctct 1740
gcagtccccg gcagtgaact atggactttc ttccccctca caaggctggg ggctcctgc 1800
tctcgtccct ggccctccct gcacagggca aagccagtct gggctctggc acacagagtt 1860
catgtttgag cctctcctct gccctcacc ccagaggggtg aggaggaatg aggggcattg 1920
gtggttaggc cgttggctg tcttgaacag ctggagggaa gatgcagggt tgggaagcgg 1980
ccaggcagaa agagctccag gctcttgtgt cggccacca gccctccat actactcct 2040
gacagctttc ctgcactgca gcttctgtct cctctgactc tagtgggaac agggcccagc 2100
tcagcctccg gcaggaggt cacccttcca cttcagcttg ccctgacctc cgctcgcaaa 2160
ccccgagctt ccaagccttt tgcctcagcc ctgcggcttc ccagaagcc tgggcttagg 2220
gtggagatgc cgctacaca cgatcctggc cctccacctg cctccaggcc acgaaatggg 2280
aattccagca ctaagccagg caccgggcag aagctggggc ttccgcctcc cttggatggg 2340
gtcaagaggg caggcctggc acattttgga gtgtcctggc taccagctct cacctacacc 2400
cacgcacccc cccacacact atgctctctc aagaatgtaa tttattgggg cccccccagc 2460
tgctttcttc acctgcccct gccctacctt acacccccag cttgacttct ttccagtcca 2520
cgtgtgtata taatgatata tatatttttg ccaggtctg ggtattgctc ctgccagac 2580
cctgacatcc ctttccactg tgtgtgtgac catgctgggg gagggggact ctgcttgaa 2640
ttaaaaggtt gcattgggtc ctaaaaaaaa aaaaaaaagg 2680

```

<210> 10

<211> 1778

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474508.2

<220>

<221> unsure

<222> 1636

<223> a, t, c, g, or other

<400> 10

```

ttagggcgaa ttgggcctct agatgcatgc tctgagcgcg gccgccagtg tgctggaaag 60
ggagcatcgc agccggcccc ggcccccgcc agcctccctc ctcgcgtccc tcggtgtcct 120
ccgcgggccg gcgcgatgcg gctggggccc aggaccgcgg cgttggggct gctgctgctg 180

```

PA-0024 US

```
tcgcgcgcgc cggccgcgcgc cggcaaggcc gagagactgc actaccgcct gggcgagcgc 240
cgcagcgact acgaccgcga ggcgctgctg ggcgtccagg aagatgtgga tgaatatgtt 300
aaactcggcc acgaagagca gcaaaaaaga ctgcaggcga tcataaagaa aatcgacttg 360
gactcagatg gctttctcac tgaaagtga actcagttca tggattcaga tgtcttttaa 420
gcattatgct atgcaagaag caaaacaaca gtttgttgaa tatgataaaa acagtgatga 480
tactgtgact tgggatgaat ataacattca gatgtatgat cgtgtgattg actttgatga 540
gaacactgct ctggatgatg cagaagagga gtcccttagg aagcttcact taaaggacaa 600
gaagcgattt gaaaaagcta accaggattc aggtcccggg ttgagtcttg aagaatttat 660
tgcttttgag catcctgaag aagttgatta tatgacggaa tttgtcattc aagaagcttt 720
agaagaacat gacaaaaatg gtgatggatt tgttagtttg gaagaatttc ttggtgatta 780
caggtgggat ccaactgcaa atgaagatcc agaattgata cttgttgaga aagacagatt 840
cgtgaatgat tatgacaaag ataacgatgg caggcttgat cccaagagc tgttaccttg 900
ggtagtacct aataatcagg gcattgcaca agaggaggcg cttcatctaa ttgatgaaat 960
ggatttgaat ggtgacaaaa agctctctga agaagagatt ctggaaaacc cggacttggt 1020
tctcaccagt gaagccacag attatggcag acagctccat gatgactatt tctatcatga 1080
tgagctttaa tctccgagcc tgtctcagta gagtactggc tccttttata atttgttacc 1140
agctttactt ttgtgataaa atattgatgt tgtattttac actcttaagt ctaaccaca 1200
gtcagaatta tcttaatgta gattataatt ttggtctttt aggaaaaaaa acaaaaaatc 1260
tgatattttat ttcaaaacgt attgaagcaa caaaatatta atattgtgcc atatgacaac 1320
aaagtctttc ctaaatactc catctgttta gtactgtatt gtggaatatt tgagttctat 1380
ttccatactt gaaaacatgg aggatttttag agatgcctga acaatattat ttaagtagta 1440
tgtgaccgag ctataaattt ttgtttttgt tctaagtaga ttttaatttg gaactgacag 1500
gacaatgttt ttaggttttag cattttgttt aaaaaccttt aaagaaacct ttagaaggac 1560
ttagacctca catattaatg ttgagaagtt ctgcttaatt ttaaaatggt ttctataaag 1620
ggtttttattg tatganatag aacttatatt ttgcatatg tatagatagt aatttatatt 1680
aatgtataac tatagcatta tggtagtggt aatttgacat tgtccaaacc tttttcattt 1740
ttgagtgatt aaaaatgaaa tgtcctttgt aaaaaaaa 1778
```

<210> 11

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1073954.1

<220>

<221> unsure

<222> 299, 304, 312, 347, 375-395, 401

<223> a, t, c, g, or other

<400> 11

```
ccattcagac acatggatgt tgggtctctg tcgggacggg gacaatgttt acaagcacca 60
catttacaca tccacacacg cacacgggca ctgcgcaggc gacttctcaa gcttttgaat 120
gggtgagtggt tcgggtatct agtttttgca ctgtcttact attcaaggta agaggataca 180
aacaagagga ccacttgtct ctaatttatg aatgggtgtc atcctttccc catccctgcc 240
tctgccccct gacgccattt tccccctta gagcagcgaa actgccccct cctgccccgc 300
cttnccgtgtc gntgaggcag gtttttactg tgagggtgaac gtggacntgt ttctgttttc 360
agtctgtggt gatgnnnnnn nnnnnnnnnn nnnnngtggc ngccccctgga ccagtgatga 420
ctgatgaatc ttatgagctt ctgattgac tcgggggtcca tctgtgatat ttctttgtgc 480
caaaaagaaa aaaaagaggt ggatcagttt gctaaatgaa cattgaaatt ga 532
```

<210> 12

<211> 5735

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474697.4

<220>

<221> unsure

<222> 3882-3908

<223> a, t, c, g, or other

<400> 12

ttg	cg	gg	gaaa	gag	ccaa	acc	ctgg	cg	gt	tgg	gggg	cccc	ggg	cg	ggg	ag	ccc	ctccc	cg	cg	gt	60
ccac	ag	cg	gac	gc	ct	gccc	ag	cc	ct	ct	ct	ct	ct	ct	cg	gg	cg	cccc	gag	gg	cg	120
ttcg	gag	gg	ccc	agg	cg	gg	gtt	ct	gt	cag	gg	ccc	ggg	ggg	ggg	ggg	ggg	ggc	ggc	ggc	ggc	180
gcct	cccc	ggg	gac	ggg	ccc	gt		acc	cag	cg	gga		cg	ggg	gag	gac	ggg	gac	ggg	gac	ggg	240
cggt	gc	acc	gccc	gg	gg	gg	gg	gg	gt	g	cg	gga	gg	gg	gg	gg	gg	gg	gg	gg	gg	300
gag	gg	cg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	360
gcg	acc	at	gg	cg	cg	gt	gag	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	420
ctg	g	ct	gt	gt	ct	ct	ct	gg	cg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	480
cgt	cca	act	g	cac	cag	cacc	ac	gg	cg	gg	gt	gg	cg	gg	cg	gg	cg	gg	cg	gg	cg	540
agac	ca	ag	aa	ga	ag	catt	tc	gt	gt	g	cc	ag	aa	gt	cg	gg	cg	gg	cg	gg	cg	600
tcct	cag	cg	t	cct	gat	gt	gg	gg	gg	gt	ga	ac	ac	ac	gat	caa	tg	ag	ct	gag	aat	660
ttct	gt	cat	g	ta	at	g	cca	gat	gac	tt	ca	ag	aa	gg	cg	ta	ca	ag	ta	ca	ag	720
atct	ct	ct	ca	ta	agg	aga	aac	ct	g	cc	cg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	780
tg	tt	cc	gaaa	cct	tc	gg	gg	agg	ttt	gg	aa	tt	gat	gat	ca	gg	att	acc	ag	aat	tc	840
cg	cg	cag	cg	ccc	at	ca	aac	agt	gac	ag	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	900
cct	ac	gac	cg	g	cg	ctt	gt	at	ca	ag	act	g	tg	tc	cg	cg	gg	cg	gg	cg	gg	960
acat	ct	ta	aaa	gaa	at	acc	ac	cag	gt	at	gt	tt	tat	ag	tg	gg	ag	tg	gg	ag	tg	1020
gcc	ac	ag	tt	c	tg	gg	cat	gt	ac	cg	cg	cg	cg	gg	gg	gg	gg	gg	gg	gg	gg	1080
tacc	ag	ga	aac	gt	gt	tc	ag	gg	cg	cg	cg	cg	cg	cg	cg	cg	cg	cg	cg	cg	cg	1140
tac	g	gt	tt	g	cc	ag	ag	cg	ga	ag	cg	ga	gg	ag	gg	cg	ga	gg	cg	ga	gg	1200
caat	gac	tt	c	ta	at	ga	ag	gg	cag	ag	gt	g	gc	at	gt	gg	ga	gg	ag	ag	ta	1260
cct	gg	ag	aaa	ct	ga	ag	cg	gg	ac	gt	tg	ag	tt	ct	gg	cg	ac	ag	ta	ca	gg	1320
cct	g	ct	gg	tg	gg	cat	cc	ac	g	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	1380
g	cg	gg	cg	ag	gac	gag	gag	gt	g	gag	aat	ga	tg	gg	gg	gg	gg	gg	gg	gg	gg	1440
tg	gc	ac	ac	ct	cg	ga	cg	gg	cg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	1500
gga	at	tc	gac	cc	ct	ct	gt	tg	ac	gt	ct	at	gc	cat	gaa	ag	gg	cg	gg	cg	gg	1560
gg	ag	gt	gt	at	tt	cat	gg	cca	tc	att	gat	at	ct	ca	cg	cca	ta	cg	ata	caa	ag	1620
tg	ca	cat	g	ct	g	cc	aaa	ac	gg	tg	aa	ac	cg	gg	cg	gg	gg	gg	gg	gg	gg	1680
tg	ag	cag	ta	c	cc	aa	ac	g	ct	ca	cg	ag	gt	ta	tg	cc	aa	ac	at	ct	ct	1740
tac	ct	tc	ag	c	ag	ag	cc	aga	g	ag	ct	gg	ata	tg	gg	gg	gg	gg	gg	gg	gg	1800
gg	tg	tatt	tg	gg	ct	ag	at	gg	gag	gg	tg	gg	ga	gg	gg	gg	gg	gg	gg	gg	gg	1860
tg	ag	act	g	ca	gc	ct	gt	g	ca	gc	ag	ga	ga	ga	ga	ga	ga	ga	ga	ga	ga	1920
gt	gt	gc	ac	ct	g	ca	ag	ga	tg	ta	cccc	ca	ct	ct	ct	ct	ct	ct	ct	ct	ct	1980
att	tg	ac	ac	cag	gt	ta	aaa	agg	gg	gt	tt	cc	ct	tt	tg	gt	ac	ct	tt	ga	ta	2040
ct	tg	gg	g	cta	gag	at	gac	tt	cg	tg	gg	gt	tt	tt	gg	gt	tt	tt	ct	gaa	aa	2100
cc	ag	gt	tt	gc	ta	tt	tata	at	ca	ta	tt	tc	at	ca	gc	ct	ac	cc	ct	cccc	ca	2160
g	ct	ct	cg	tt	cc	tt	ca	at	aa	ag	ag	ata	c	cg	cg	ca	aa	gg	gt	ct	ct	2220
aa	cca	ag	tg	c	ta	tg	gat	g	ag	at	tg	g	ga	gg	tc	ag	ac	ac	ct	gc	ct	2280
ct	gt	ct	g	ga	tt	aa	ct	tt	gt	aa	tt	at	gg	ga	gt	at	tg	gc	aa	ct	ct	2340
tt	gg	att	ca	g	tg	aaa	act	g	tt	gc	att	att	ct	cc	at	cc	at	cc	at	cc	at	2400
ac	acc	ag	aga	t	ct	cag	at	ca	ga	at	cag	aga	gg	gg	gg	gg	gg	gg	gg	gg	gg	2460
gat	gg	tg	ag	gg	cg	ag	gaa	ag	cg	gt	gg	gg	ct	ct	gg	ac	ac	ac	ac	ac	ac	2520
gat	gat	c	acc	ca	ag	cccc	ag	g	ct	gt	ct	tt	ag	cc	ct	gg	ag	tg	ca	ag	tg	2580
gc	ct	gc	ct	cc	act	ag	gt	ca	ag	ag	ga	act	a	gag	ta	cc	tt	ta	ca	gg	ac	2640
gt	tt	aa	at	gg	tt	att	ct	ct	tt	gg	gaa	aa	ac	tt	ca	gaa	aa	ac	tt	ca	gaa	2700
gt	gc	cc	ct	ga	tt	ct	att	ct	ct	ct	ct	ct	ct	ct	ct	ct	ct	ct	ct	ct	ct	2760
cga	act	ct	ta	g	ct	ct	gg	g	ca	ct	cc	aa	g	gg	gg	gg	gg	gg	gg	gg	gg	2820
cg	ta	ag	ct	c	gg	g	at	gac	tt	gt	ag	g	ga	gg	gg	gg	gg	gg	gg	gg	gg	2880
cag	ca	ag	gt	g	cccc	at	ct	ct	ag	ag	tg	gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	2940
tg	ag	gat	gt	g	at	cc	ag	gaaa	tt	cc	ag	tt	tg	gg	gg	gg	gg	gg	gg	gg	gg	3000
gc	ct	tg	gg	gg	g	tt	tt	ct	gt	tt	gg	cc	cg	ct	ct	ag	ac	tt	tt	gg	gg	3060
agg	ct	tt	tt	tt	tg	ga	ag	gag	gt	gg	ct	ct	gc	gg	ct	ct	gc	gg	ct	gc	gg	3120
ccc	ag	gg	cc	ct	cag	aa	act	gag	cc	ac	ag	gg	ct	g	gc	cc	ag	gg	gg	gg	gg	3180
tct	g	cat	tg	g	gg	ag	gt	ta	tt	ct	gt	cat	g	tt	ct	ac	cc	cc	cc	cc	cc	3240
tt	gg	gat	gag	a	ta	tg	gt	cat	a	ct	tg	tag	at	a	cccc	caa	ag	at	gt	ga	ag	3300

accatttttga	atgaatagat	tggttttctg	tggttccctc	caaacctggc	caagcccagc	3360
ttccgaagca	ggaaccagca	ctgtctctgt	gcctgactca	cagcatatag	gtcaggaaag	3420
aatggagacg	gcattcttgg	acttcactgg	ggctgctgga	ttggatggga	aaccttctgg	3480
aagaggcgaga	tggggggtcaa	accactgcct	tggccccagg	aagggggccat	aggtaggtct	3540
gaacaactgc	cgcaagacca	ctacatgact	tagggaaactt	gaaaccaact	ggctcatgga	3600
gaaaacaaat	ttgacttggg	aaagggatta	tgtaggaata	atgtttggac	ttgatttccc	3660
cacgtcataa	tgaagaatgg	aagtttggat	ctgctcctcg	tcaggcgag	catctctgaa	3720
gcttggaag	ctgtcttcca	gcagcctcgg	tggcctcggg	ttcctaccgg	cttctctgca	3780
tttgggtctg	tgatcatgtt	gccataatgt	gtatggaaag	tgtaacacat	tcttactggg	3840
taaagacgac	taccaggtat	ctaacttggt	taacattgag	tnnnnnnnnn	nnnnnnnnnn	3900
nnnnnnnnnt	tgtatattgt	ttacattttg	agaggtagca	ttctgtttca	aatgcttttt	3960
gttttttctga	cagtattgtt	gactgggtca	taacattttg	agctgtgggt	tggtggattt	4020
tcaattttttt	tttttaaagg	tcattcgctg	tgctatcttc	aaaaccttga	gtttggcccc	4080
caattttttgg	cattcaaagt	tttaaaagct	atztatcttg	gtttatacaa	gtttcctttc	4140
tcttctttttt	gtcatgggat	tctatttggg	ctgcagtttg	aatgtagaga	aagtggactg	4200
atcccccaag	cgttgtctgc	ccccactctt	tcctccttgg	gtcccgccat	tcttttactg	4260
ggcagtcgag	ggcattggag	gggaagtgc	tgcctcagc	ctcactccct	ggggccatga	4320
agaaaagcta	aacagctcca	tgccatctca	gaataatgtt	gggtctccca	agaagaaagg	4380
tgtaagaata	acgacatggc	tgattaggcg	aggccaggat	agggctaagg	ccaggattcc	4440
tggttgccat	ccagtcaccc	cttctcccat	ccttccccct	cttcttccac	aagtccgcag	4500
ccgagacact	gtagtctccc	agccactgtg	atgagtgcct	tgagactcc	actgacctct	4560
agatgaaggc	ccctggccct	ggttcctggt	aattaacctc	tgggtctttg	agtccccag	4620
cacaaacttc	tttctgttac	cctgcggctt	ggggtcacag	ggcatgccgg	gaagccacag	4680
ctgagggggcg	cagactgaag	cagtgcctca	cctctccttc	tttagctcag	gggttgctgg	4740
tctgtggcag	gcgccacgag	tggccccctg	ggctgttctc	agtggcagtc	tcttaagttc	4800
ccaccacagg	cagctcttta	tccccctctc	ctacttgact	ctttctcttg	cctgtgcttt	4860
tggcctcaaa	caggcctgct	ggtagcgctc	agggcgtag	gctacactcc	tgccctgcct	4920
ttcctgtctt	catggtctgc	cagggcatac	cctggggagg	tggaccaaa	accaggact	4980
ttttgcagta	gccagtccta	ccccccagtt	gtcttttttac	caattcaggg	tgaggagaaa	5040
aactgcagca	ccccagcatg	tgagttactc	aggtgttggg	ggctagaagg	gacagtgcgt	5100
ttaaacaaca	ctcagagctc	tggccttaaa	cctgtggccc	ccaagtcta	ggagcctcat	5160
ctcttcctgg	cagtcatgcg	ggcaggagggt	cctgaaaggg	aaaacccatt	cagacaactg	5220
ttccccaatc	taccagccat	ctgcaggggt	cagtgaacct	ggccctctcc	ctcctctaga	5280
atgtgccact	tatgaagagt	gccccatggg	gaaaaggaga	ctcagctgtc	ccttggcagc	5340
ttgtgccagt	atcccagggc	agaagtttcc	acaggagcct	cttgcccttg	cgagagcca	5400
ctgtgagagg	cggtgggagc	caacaccctt	gggggagggg	gcagtactgc	tcggcacatc	5460
ccagcatcag	gtcagatcac	tgaaattaaa	aaatgtgaat	taagttcata	tccacctttt	5520
ggggaagcag	gacaaaccac	cacccaccca	agtgtgtgac	ttctccatat	cccactgcag	5580
tttccatttt	ttaaatggga	attttcaatc	ccctgtgctt	gtctaacgtc	tgctttaaaa	5640
agtttgagac	cctgttactg	tttgaaaatg	catgcatgtt	acgatgaatc	tccaacctga	5700
ggaaaaaaat	aaaactcaaa	aagcttttgt	taaaa			5735

<210> 13

<211> 4481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242114.16

<400> 13

cgaccactgt	gagcccgcgg	cgtgacgcgt	gggaggaagc	gcggctgctg	tcgcccagcg	60
ccgccccgtg	gtcgtctgcc	ttcgtttcac	ggcgccgagc	gcgggtccga	gcagaactgg	120
ggctcccttg	catctttccg	ttacaaattc	agtgccttct	gcagtttccc	cagagctcct	180
caagaataac	ggaagggaga	atatgacaga	tacctagcat	ctagcaaaat	aatggcagct	240
gcttaccttg	accccaactt	gaatcacaca	ccaaattcga	gtactaagac	tcacctgggt	300
actgggtatg	aacgttctcc	tggtgcaatg	gagcgagtat	taaaggctct	tcattatttt	360
gaaagcaata	gtgagccaac	cacctgggccc	agtattatca	ggcatggaga	tgctactgat	420
gtcaggggca	tcattcagaa	gatagtggac	agtcacaaag	taaagcatgt	ggcctgctat	480
ggattccgcc	tcagtcacct	gcggtcagag	gaggttcact	ggcttcacgt	ggatatgggc	540

gtctccagtg	tgagggagaa	gtatgagctt	gtcaccac	cagaggagtg	gaaatatgaa	600
ttgagaattc	gttatttgcc	aaaaggattt	ctaaaccagt	ttactgaaga	taagccaact	660
ttgaatttct	tctatcaaca	ggtgaagagc	gattatatgt	tagagatagc	tgatcaagtg	720
gaccaggaaa	ttgctttgaa	gttgggttgt	ctagaaatac	ggcgatcata	ctgggagatg	780
cggggcaatg	cactagaaaa	gaagtctaac	tatgaagtat	tagaaaaaga	tggttggtta	840
aagcgatttt	ttcctaagag	tttactggat	tctgtcaagg	ccaaaacact	aagaaaactg	900
atccaacaaa	catttagaca	atttgccaac	cttaatagag	aagaaagtat	tctgaaattc	960
tttgagatcc	tgtctccagt	ctacagattt	gataaggaat	gcttcaagtg	tgctcttggg	1020
tcaagctgga	ttatttccagt	ggaactggca	atcgcccag	aagaaggaat	cagttacct	1080
acggacaagg	gctgcaatcc	cacacatctt	gctgacttca	ctcaagtgca	aaccattcag	1140
tattcaaaac	gtgaagacaa	ggacagaaaa	ggaatgctac	aactaaaaat	agcaggtgca	1200
cccagccttc	tgacagtgac	ggcaccatcc	ctaaccattg	cggagaatat	ggctgacct	1260
atagatgggt	actgccggct	ggtgaatgga	acctcgcatg	catttatcat	cagacctcag	1320
aaagaagggtg	aacgggcttt	gccatcaata	ccaaagttgg	ccaacagcga	aaagcaaggc	1380
atgcccagac	acgccgtctc	tgtgtcagaa	acagatgatt	atgctgagat	tatagatgaa	1440
gaagatactt	acaccatgcc	ctcaaaaagc	tatggaatag	atgaagccag	ggattatgag	1500
attcaaagag	aaagaataga	acttgagcga	tgtattggag	aaggccaatt	tgagatgta	1560
catcaaggca	tttatatgag	tccagagaat	ccagctttgg	cggttgcaat	taaaacctgt	1620
aaaaactgta	cttcggacag	cgtgagagag	aaatttcttc	aagaagcctt	aacaatgctg	1680
cagtttgacc	atcctcatat	tgtgaagctg	attggagtca	tcacagagaa	tcctgtctgg	1740
ataatcatgg	agctgtgcac	acttgagag	ctgaggtcat	ttttgcaagt	aaggaaatac	1800
agtttggatc	tagcatcttt	gatcctgtat	gcctatcagc	ttagtacagc	tccttgcatat	1860
ctagagagca	aaagatttgt	acacagggac	attgtctctc	ggaatgttct	ggtgtcctca	1920
aatgatttgt	taaaatttag	agactttgga	ttatcccgat	atatggaaga	tagtacctga	1980
tacaaagctt	ccaaaggaaa	attgcctatt	aaatggatgg	ctccagagtc	aatcaatttt	2040
cgacgtttta	cctcagctag	tgacgtatgg	atgtttgggtg	tgtgtatgtg	ggagatactg	2100
atgcatgggtg	tgaagccttt	tcaaggagtg	aagaacaatg	atgtaatcgg	tcgaattgaa	2160
aatggggaaa	gattaccaat	gcctccaaat	tgtcctccta	ccctctacag	ccttatgacg	2220
aaatgctggg	cctatgaccc	cagcaggcgg	cccaggttta	ctgaacttaa	agctcagctc	2280
agcacaatcc	tggaggaaga	gaaggctcag	caagaagagc	gcatgaggat	ggagtcacga	2340
agacaggcca	cagtgtcctg	ggactccgga	gggtctgatg	aagcaccgcc	caagcccagc	2400
agaccgggtt	atcccagctc	gaggtccagc	gaaggatttt	atcccagccc	acagcacatg	2460
gtacaaacca	atcattacca	ggtttctggc	taccctgggt	cacatggaat	cacagccatg	2520
gctggcagca	tctatccagg	tcaggcatct	cttttgacc	aaacagattc	atggaatcat	2580
agacctcagg	agatagcaat	gtggcagccc	aatgtggagg	actctacagt	attggacctg	2640
cgagggattg	ggcaagtgtt	gccaaacct	ctgatggaag	agcgtcta	ccgacagcaa	2700
caggaaatgg	aagaagatca	gcgctggctg	gaaaagagag	aaagatttct	gaaacctgat	2760
gtgagactct	ctcgaggcag	tattgacagg	gaggatggaa	gtcttcaggg	tcgattgga	2820
aaccaacata	tatatcagcc	tgtgggtaaa	ccagatcctg	cagctccacc	aaagaaaccg	2880
cctcgccctg	gagctcccgg	tcattctggga	agccttgcca	gcctcagcag	ccctgctgac	2940
agctacaacg	agggtgtcaa	gccatggagg	cttcagcccc	aggaaatcag	ccccctcct	3000
actgccaaac	tggaccggtc	gaatgataag	gtgtacgaga	atgtgacggg	cctgttgaaa	3060
gctgtcatcg	acatgtccag	taaaatccag	ccagcccac	cagaggagta	tgctcctatg	3120
gtgaagggaag	tcggcttggc	cctgaggaca	ttattggcca	ctgtggatga	gaccattccc	3180
ctcctaccag	ccagcaccca	ccgagagatt	gagatggcac	agaagctatt	gaactctgac	3240
ctgggtgagc	tcattcaacaa	gatgaaactg	gccagcagct	atgtcatgac	cagcctccag	3300
caagagtaca	aaaagcaaat	gctgactgct	gctcacgccc	tggtgttgga	tgccaaaaac	3360
ttactcgtat	tcattgacca	agcaagactg	aaaatgcttg	ggcagacgag	accacactga	3420
gcctccccta	ggagcacgtc	ttgctacctt	cttttgaaaga	tgttctctag	ccttcacca	3480
gcagcgagga	attaaccctg	tgtcctcagt	cgccagcact	tacagctcca	acttttttga	3540
atgaccatct	ggttgaaaaa	tctttctcat	ataagtttaa	ccacactttg	atttggttcc	3600
attttttgtt	ttgttttttt	caatcatgat	attcagaaaa	atccaggatc	caaaatgtgg	3660
cgtttttcta	agaatgaaaa	ttatatgtaa	gcttttaagc	atcatgaaga	acaatttatg	3720
ttcaccattaa	gatacgttct	aaagggggat	ggcgaagggg	tgacatctta	attcctaaac	3780
taccttagct	agagtaggag	agaggagagc	atggaagcaa	gaattccagg	aaacccaaga	3840
ggctgagaat	tcttttgtct	accatagaat	tattatccag	actggaattt	ttgtttgtta	3900
gaacaccctt	cagttgcaat	atgctaatac	cactttacaa	agaatataaa	agctatatatt	3960
tgaagacttg	agttatttca	gaaaaaacta	cagccctttt	tgtcttacct	gccttttact	4020
ttcgtgtgga	tatgtgaagc	attgggtcgg	gaactagctg	tagaacacaa	ctaaaaactc	4080
atgtcttttt	tcacagaata	atgtgccagt	tttttgtagc	aatgatattt	ctcttggaag	4140
cagaaatgct	ttgtaccaga	gcacctccaa	actgcattga	ggagaagttc	cagaaccatc	4200

PA-0024 US

```
ccctttttcc atttttataat aattttataaa gaaagattaa agccatgttg actatttttac 4260
agccactgga gttaactaac ccttccttgt atctgtcttc ccaggagaga atgaagcaaa 4320
acaggaatgtt ggttttcttt tgatgtccag ttacaccatc cattctgtta attttgaaaa 4380
aatataccct cccttttagtt tgttggggga tataaattat tctcaggaag aatataatga 4440
actgtacagt tacttttgacc tattaataaag gtgttaccag t 4481
```

<210> 14

<211> 5032

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 445186.7

<220>

<221> unsure

<222> 5019

<223> a, t, c, g, or other

<400> 14

```
ggggcggggga atatacaaag tgaagccaca ttgccaaaact tgcagcagcg attgcagcag 60
ttgtctgccgc tgcgcgcgcgc ctgaagccgc gccgcgcggg ccgagggctc ctgcagctgc 120
tcgcgcgcag tcggaggcgg agaaggacga agactgagac tgacacttct gctcccggcc 180
gcccggcact tacgcggggg cccccaacc cgccccagag caacgcgatt taaaaaaaaa 240
aaaaaagccg cccttagccc cctcctcccc ttctctgctt ctgcgagAAC tccctccctc 300
cctccagctt ccgccagccc aggcgcacct tccctggaag ccgagcggct tcgctcgcat 360
ttcaccgccc ccgcctctcg caatattgca atatagggga aaagcagacc atggtgaatc 420
cgggcagcag ctgcgcgcgc cccccggtga cggccggctc cctctcctgg aagcgggtgcg 480
caggctgcgg gggcaagatt gcggaccgct ttctgtctta tgccatggac agctattggc 540
acagccgggtg cctcaagtgc tctgtctgcc aggcgcagct gggcgacatc ggcacgtcct 600
gttacaccaaa aagtggcatg atcctttgca gaaatgacta cattaggtta tttggaaata 660
gcgggtgcttg cagcgtttgc ggacagtcga ttctgctgag tgaactcgtc atgagggcgc 720
aaggcaatgt gtatcatctt aagtgtttta catgtcttac ctgccggaat cgcctggtcc 780
cgggagatcg gtttactac atcaatggca gtttattttg tgaacatgat agacctacag 840
ctctcatcaa tggccatttg aattcacttc agagcaatcc actactgcca gaccagaagg 900
tctgtcaaaa ggtcagagta atgcagaatg cgtgccttca tctcagattt gttcatcaca 960
ggtggatccc atgtgtcttc agtagacaag tcacctttgt agctagcacc agtgccagct 1020
ccatgccatt gcaccttctt tagtcttgat tgccttccc gcattttatt gtgtattaaa 1080
atgactgaat atgaacatta aggactccat gaacctgggc taatgggaga ctgtagagaa 1140
aatgaaaaaa gatccaccag aggacatctt ggggaggggg agggagctgg gggggaggga 1200
aatgactaat gaagctaatt aaaagaagca ttcaaattctg ctttctaccc tcattaacaa 1260
ttagcagggc gtttgcaga gtttgtacct ttgtttttac cttaacaaca ttctatttgc 1320
tctttgtata tttaagtgtt gtaaggaaac gtgtttcaat caaaactgac catgagataa 1380
aggaaagaga tgtggctttt gtgatattct atcacaaaca cttattgtat ctctgtaaaa 1440
tacaatgtat gtatgcatgt aagtgttttt gtccaatgt tgctactccc atggcaaaga 1500
aaaaaaaaag aatgaaaaaa agaaaaaaat ttggaaaaaa aaatcaggct catagcagct 1560
actgtgtaga aaattcccc tactttctaat ttgttgaatg aagaaaaaaa aaaatctttt 1620
atttgtgata ttttcagaga catttgctct agtatgggtg atttaaataa taaaaactta 1680
aaagaaaaaa tatttaatgg tgtttgggtt taaacactgc tttttctctt ctgtattttg 1740
aagaaattta gtttttattg ttgttgaata acaagctcac tttaaatttg aaggagtga 1800
gggagggtgga gtgtatattt atttagctct gggccagtaa ggtattcttc aaattactta 1860
accacgccat tattggcagg ggtacaaagt agtttctaac agggctcctt ctataagtca 1920
agaatattct gttacagca tttcgttaca ctcttatatc acagtaagtc ttttgtgttt 1980
ataaatactt gagtgccac tattttgttt attcttttct tcaatagcaa acaaacgctt 2040
gggtattgat gaaaagtatg tataaaaaaa aatacggcac aacctcctg ttctcttatt 2100
gagtttatag cttttgaagg aagtcacaat ttctaagtca tacctgtaca ttttttgaag 2160
ctcacttagt tgtagggacc cagagctctt tttttatggg gatctttgat tgggtgaagta 2220
gccatttctt ggtgaccctt aggcctcgtg ggttggctgt aaggtgttta ttttgttttg 2280
ctcctacact tctttactga ctgcgtttcc gtatgtattt tgggggaaga ttctgacttc 2340
atttagtctt agtcttgaga tacttgattg ctggttgacg gcagcagagt gtccaccaca 2400
```

```

gtgcctgcac  tgcccgagca  gctgcccctcc  ggaaagcatg  cagtataaca  gctagtgtgtg  2460
gaaggaggaa  aaccaaataag  gcctggagggc  tgagggttgta  ctgccagctt  ccttagatgt  2520
gagcaaattt  caactacaac  ttccatcaca  ggctaataaaa  accagggtgtg  tgaacgctac  2580
tattttaaat  tttctttttt  aagatggcat  tttatttttgt  tccagaaaaag  cgcctgatgt  2640
agaccctccc  tctgagaata  gccgtggagc  catgtagaga  ggtgtagctc  agcacatctc  2700
aactaccagt  cagcttccct  ttgagaactt  ctgtgctcac  ttcctgtttt  cagagattcc  2760
agggcgaggg  aaaaaaaaaa  tcagttgaac  ttcaaaccctc  ctagaggaga  ttgtaaaggc  2820
atagagttga  ggtgaatagt  tttgttagaa  ccttataaaa  ataaaatgca  agaaaaataat  2880
atgaagaaat  cacatatata  tgtttgaatt  agatgtctgt  ttgaattaga  tccttgggga  2940
atttcttcaa  actagttctg  gttcttatat  ttgttttttt  tcctttaagg  aactttctga  3000
aggaagttag  actgcgatgg  taaaggggga  aatgggttaa  tgagattgca  ggcattttct  3060
atattctttt  tggcataagc  acttatgtcc  ctgatatgta  caaattcaaa  ggaggtgggt  3120
aataacttta  gtaaataata  tattgtcgca  tttaatgatg  tggaggggcta  aggtcattac  3180
ggactttaaa  taaactatta  tatggctggt  tcctcaagca  ctgctgcgta  tttaataatg  3240
agcttctaaa  agcattttct  aagttgcaga  cctataagat  tacaatgtc  actcatgtta  3300
gtataatcca  catgcaagt  atgaagcctt  ctctttgatg  tgctaaattg  gagaaggact  3360
aatggagcta  tgaatataca  atagaacata  ttttaagtagt  agtcttgctt  taggtaaaac  3420
actttcttga  aaccagaggc  atttcaaaca  ataaaaccgc  gctctaattg  ggatgctctg  3480
tgtggataga  aagctactaa  aaacactcag  gtttattctg  atgtgagcag  cgattgtgtg  3540
cagttcctcc  cccaatctca  acattgctta  ggaaaaaaa  aaatctatga  gtttattcca  3600
cctttcatcc  attgcatttg  tgatgttatt  agttagcaag  atggacactg  ttcttttagaa  3660
aggacttatt  taatattaac  cacgtcatag  agcaagatgg  cccccagtc  ctacaagcaa  3720
gtgcaattaa  aaataaaagc  aaatgttact  gagccctgct  gaactcctga  taaaaaaaat  3780
tatgtttatg  gtacatatata  atgtctcaat  catgcaaatt  gtcactcttg  ttaatgaaac  3840
aattttgtaa  aaagatagtc  ctctaaaagg  gtttaagtgt  ttttacctat  ctaactgtct  3900
aattagattt  acacatcccg  caaggcaggg  gagcctgaag  gcttttccaa  accaaatcgt  3960
ttgccactag  aaactatttt  cagctcttca  tgatttatta  ggaaatagtt  taaccgggac  4020
tgtagtgtct  tataaaaatac  aaaacgagaa  aactgacaca  ccaaaatgaa  gtctgtgaaa  4080
ttgtcatcct  cttaatatata  cctgtattta  aattctttct  tttgccctta  ttaacactga  4140
tatttgaac  aactaatcat  ctaaaaggaa  gctcttaaag  ggctttaaat  gtcaatatag  4200
taagattcta  atgtgcacta  ctatttatat  aaaatatttc  ttagggccca  taaatcatat  4260
aataaacagt  gaaccaaga  gctacatatg  gagtctagt  aagagttccc  atgtagccta  4320
actaattgta  tttaaattga  ggagatccaa  aaaccccatc  acccttcacc  ccaaagacc  4380
cttcaccctt  caccagggaa  ttctatcctg  ggtgctgtcc  cacctatgac  cccttcaaga  4440
ggccattgga  aaaaggccat  ttacaagtta  atgttactta  tagctttgtt  actaagactc  4500
acctattggt  agtgcagcca  agtcacagaa  gtgcttattg  cagttaaata  gcaatttggt  4560
tccatgaaac  tgcaattaaa  gtattactga  gcagccattt  tagattggca  gtgctctgaa  4620
cgcatgttaa  acagccagct  actcccactt  gcagagtctg  agatctgact  agcagcaaag  4680
tgtagcacat  tcgccgatgc  tgggtacct  gttaaagagg  catttgtagc  cctctgctcc  4740
catcgtgaac  atgctgagag  caatgacaag  tcagggctga  tttttggaag  gtgaacttgc  4800
aacttacctc  aagtgaatac  tgttttcagt  tgtgcaagaa  gtgctttatg  ctagtagata  4860
tgtgcattgt  tcctagagg  aatgttttca  agtgcagatt  gattctgctg  agaattggacg  4920
gcaactcgga  ggcctcaagc  caataatgta  ctacaggccc  tgacatgtta  cagctgtgta  4980
aacagggcc  ttctatttcc  taaatcacia  ctaataaanc  agaggatgaa  aa  5032

```

<210> 15

<211> 3339

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 247500.4

<400> 15

```

ctctgtgtgtg  ctgcctcaaa  cgcggaggggc  tgcgtgcagt  gggagcggggc  tccaggagcc  60
cgagcctcca  gccgtcctca  gagcaaggca  gcaccgaggc  ctggccacag  caatatccat  120
ctggaagctc  ttcccttcac  tcccaactct  gaggttgcc  aactctttat  taaaaattca  180
gaagggggaa  tgccagcccc  tagcatggac  tgtgatgttt  ccaactctgt  tgctgtgtg  240
gtggatgtcg  aggtctttac  caatcaggag  gtttaaggaa  aatttgaggg  actgtttcag  300
acttatgatg  actgtgatg  gttccagcta  ttttaagagt  tcagacgtgt  ccgtataaac  360

```

```

ttcagcaatc ctaaactctgc agccccgagct aggatagagc ttcattgaaac ccaattcaga 420
gggaaaaaat taaagctcta ctttgacacag gttcagactc cagagacaga tggagacaaa 480
ctgcacttgg ctccacccca gcctgccaaa cagtttctca tctcgcccc ttcctcccca 540
cctgttggct ggcagcccat caacgatgcc acgccagtcc tcaactatga cctcctctat 600
gctgtggcca aactaggacc aggagagaag tatgagctcc atgcaggggac tgagtccacc 660
ccaagtgtcg tcgtgcacgt gtgcgacagt gacatagagg aagaagagga cccaaagact 720
tccccaaagc caaaaatcat ccaaactcgg cgctctggcc tgccaccctc cgtgtccaac 780
tgagctgcct gctccttctc gataatagcc gtctcctctt tatcatgett tttccccctg 840
ttgtttgtca aaaaaaattg cttttaaat cctgggtgtt tggttgtttg agattccttc 900
cttgttatca agcctctcgg acaaaagggc taggaaaagg tgatatgtct cctgatcata 960
tcatacccat taagtataac ccattattta gaaggttcta gggaaaaaag tagtattttc 1020
ttattaaaca atcagcacag cctatatctt tgttctctca tgttgatcca agccagagac 1080
atcggtaaca aatagcacct gtgttgtttg tgagggtgtt cagtcccagt cctgatgtgt 1140
gtgcgttgtt ctctcctggc cacttaataa ggaccatatg taaacttgac tttgactgca 1200
tgagatatcc ctatctggtc tcaactcagtc ctctgcatcc caacattccc aggacatgca 1260
tgatcaccag catttatttt cattatttga ggatatctta taactcacag attgtcagca 1320
tccagccatg tcctatctag attaggaaaa tgatcagaat attccagctc aacaagtctg 1380
ggtatactca ctattgtgag tcaatacacc atagctctgt tgaaattcct ggaggcaaaa 1440
ttgaccttgg ccccaaagat attcctcaat agatttcaaa caccactccc ctgtagaact 1500
ctccagcct cggtggggag gctgtgccag ggtgatagag actgatttca gacaaaccta 1560
tttattacaa aagtttcatg gtgtctgaat gattgttttc tctctttgta tatttgtaca 1620
aatgtttcag ctgtgctttt aaaaaatctg gatgtttttt atttagtgat tgttcgacaa 1680
ttagctgett caaaacataa tgtgcattgc ttatgaatgc cttcatatac taatacagat 1740
actctgataa tattacactc taataaggat atgcttgaat tttgaaagga cacaaaacat 1800
ctaagcccaa tatatacatg gttagccaac atctttgcta tcaagaccac ttgttttaaa 1860
taaagatgca agtgtcagtt gtagattatt gggatgaagc taaatcccca gaatgcagca 1920
gcagctgagc atgttaaaat ggggaaggat gatagctaca tgtatgccgg tcctactcac 1980
gcgacacccg tgtgtcctaa aaagttactt gtttttggtta cgtgtgattt tcctatttct 2040
ctagcccaaa gtgcattaca gaagatacac ctatagaacc attaccttct gctatgtgtg 2100
ccagggtcta tctactcctg tacattaatg gattacttta gatgcaaatg cagattacaa 2160
tggagtgggg aagtactttc attacccaag cctcagaaaa acacacaaga acaataacac 2220
agcaaacaga ttgagggatt gttgtggttt ttgactaagg tgtatgttag tttcatcaga 2280
aacttaaaac atagactgat cactcagaaa tttaaagtcg ttttactgtg aatatagcaa 2340
tatagtactg gacacagtac tggtgaaaact gaggagagca ttgcttgtaa aatcctgagt 2400
ttccataagg aaaatgaaaa ctctttttta aaataaaatc tgaggagtgt acaataagca 2460
tatgctttga ctttcctttg ctgtggaggt ttttggtttt tcattgatga taaacgacta 2520
cagacttagt agtggagaaa tgggtgcctc tagtgggaaga aatagtaggc tcagctattc 2580
agatgcagag cactgcagca tccagccttt caaagctgac tcttctcaat catctgtggg 2640
tcatttgact tgatttttta agctaccctg aatttcagaa atgcaggttc taaagaaatc 2700
tagatgagag aaagtatttg aaaatgattt tttaaagac acatctgaca 2760
tttttaacaa cttagtaaaa gttgaaatga ccattctgtg tagtcataaa agaaacacaa 2820
tgaagtgtat ggcctctgga gttagtctta gtaaaactta ttgctctgtg tcaatgttaa 2880
cctgtctcag atcaagtaat tctttcacta ggttgggttt ggggaggggg gaaaagaggg 2940
gcttttccca ggagaacgat aagaaatgga aagactcctt gaagtgttgc aagggaacct 3000
cctagcactg tgaaagtcag aatcgctca gcatttccat gacgcacatt atgcaaactc 3060
cttttagcact attttaagtt tgaaaacttt aacaatgaag gggaagggga agatttccac 3120
caactgaatc atttgtgcac gtgtatagct caaagagctt agacttcaaa tatactctgt 3180
gaatgaatta cttgatctga gacagggtta cattgacaca gagcaataag ttttactaag 3240
actaactcca gaggcatac acttcattgt gtttctttta tgactacaca gaatggtcac 3300
ttcaactttt actaagttgt taaaaatgtc agatgtgtc 3339

```

<210> 16

<211> 3159

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 247500.5

<220>

PA-0024 US

<221> unsure

<222> 216, 3091, 3093, 3103

<223> a, t, c, g, or other

<400> 16

ccagctatta	gggagactcc	agcccccttgc	caggcgagag	agtggatggt	caccctccat	60
ggaggaagtg	tttcccaagg	gtgtctgtctg	gggaaggaaa	gcatgatgca	gtgcagatta	120
atcagagaga	agagccaacg	tctcgtcttac	ctttttttgt	tgaaaacaaa	caaaacgtga	180
ttgtatgtca	acttttgaaa	aaaacaacgt	agtgtnggga	atgaggggag	aatcatactt	240
catcggaatg	aggagcccag	ggcagcaggg	acacgtccct	gaagatggag	gactttttctt	300
actgtgctgc	atagacaggg	actgggctgt	cactcgttgt	tttgcagaag	aagccttttca	360
agcaatcact	gacttcaatg	acctcccaaa	ctcgttgttt	gcgtgcaatg	ttcaccagtc	420
agtgtttgaa	ggagaagaga	gcaaggaaaa	atlttgaggga	ctgttttcgga	cttatgatga	480
ctgtgtgacg	ttccagctat	ttaagagttt	cagacgtgtc	cgtataaaact	tcagcaatcc	540
taaaatctgca	gcccagagcta	ggatagagct	tcataaaacc	caattcagag	ggaaaaaatt	600
aaagctctac	tttgacacagg	ttcagactcc	agagacagat	ggagacaaaac	tgactttggc	660
tccaccccag	cctgccaaac	agttttctcat	ctcgtccctc	tcctccccac	ctgttggctg	720
gcagcccatc	aacgatgcca	cgccagtcct	caactatgac	ctcctctatg	ctgtggccaa	780
actaggacca	ggagagaagt	atgagctcca	tgcagggaact	gagtcacccc	caagtctcgt	840
cgtgcacgtg	tgcgacagtg	acatagagga	agaagaggac	ccaaagactt	ccccaaagcc	900
aaaaatcatc	caaactcggc	gtcctggcct	gccaccctcc	gtgtccaact	gagctgcctg	960
ctcctttctcg	ataatagccg	tctcctcttt	atcatgcttt	ttccccctgt	tgtttgtcaa	1020
aaaaaattgc	ctttaaattc	ctgggtgttt	ggttgtttga	gattccttcc	ttgttatcaa	1080
gcctctcgga	caaaagggct	aggaaaaggt	gatatgtctc	ctgatcatat	cataccatt	1140
aagtataacc	cattattttag	aagggtctag	ggaaaaaagt	agtattttct	tattaaacaa	1200
tcagcacagc	ctatatcttt	gttctctcat	gttgatccaa	gccagagaca	tcagtaacaa	1260
atagcacctg	tgttgtttgt	gagctgtttc	agtcccagtc	ctgatgtgtg	tgctgtgttc	1320
tctcctggcc	acttaaatag	gaccatatgt	aaacttgact	ttgactgcat	gagatatccc	1380
tatctggctc	cactcagtc	tctgcacccc	aacattccca	ggacatgcat	gatcaccagc	1440
atttattttc	attatttgag	gatattctat	actcacaga	ttgtcagcat	ccagccattg	1500
cctatctaga	ttaggaaaat	gatcagaata	ttccagctca	acaagtctgg	gtatattcac	1560
tattgtgagt	caatacacca	tagctctggt	gaaattcctg	gaggcaaaat	tgaccttggc	1620
cccaaagata	ttcctcaata	gatttcaaac	accactcccc	tgtagaactc	ttccagcctc	1680
gttggggagg	cttgtccagg	gtgatagaga	ctgatttcag	acaaacctat	ttattacaaa	1740
agtttcatgg	tgtctgaatg	attgttttct	ctctttgtat	atttgtacaa	atgtttcagc	1800
tgtgtcttta	aaaaatctgg	atgtttttta	tttagtgatt	gttcgacaat	tagctgtctc	1860
aaaacataat	gtgcattgct	tatgaatgcc	ttcatatact	aatacacata	ctctgataat	1920
attacactct	aataaggata	atgctgaatt	ttgaaaggac	acaaaacatc	taatgccaat	1980
atatacatga	ttagccaaca	tctttgctat	caagaccact	tgttttttaa	taaagatgca	2040
agtgtcagtt	gtagattatt	gggatgaagc	taaatcccca	gaatggcagc	agcagctgag	2100
catgttaaaa	tggggaagga	tgatagctac	atgtatgccg	gtcctactca	cgcgacaccc	2160
gtgtgctcaa	aaaagttatt	tgtttttggt	acgtgtgatt	tttctatttc	tctagcccaa	2220
agtgcatatc	agaagataca	cctatagaac	cattaccctc	tgctatgtgt	gccaggcctc	2280
atctactcct	gtacattaat	gaattacttt	agatgcaaac	gcagattaca	atggagtggg	2340
gaagtacttt	cattacccaa	gcctcagaaa	aacacacaag	aacaataaca	cagcaaacag	2400
attgagggat	tgttgtgggt	tttgactaag	gtgtatgtta	gtttcatcag	aaacttaaaa	2460
catagactga	tcactcagaa	attaaagtcc	gttttactgt	gaatatagca	atatagtact	2520
ggacacagta	ctgggtgaaac	tgaggagagc	attgcttgta	aaatcctgag	tttccataag	2580
gaaaatgaaa	actcctttta	aaaataaaaat	ctgaggagtg	tacaataagc	atatgctttg	2640
actttccttt	gctgtggagg	tttttggttt	ttcattgatg	ataaacgact	acagacttag	2700
tagtggagaa	atgggtgtcct	ctagtggaag	aaatagtagg	ctccgctatt	cagatgcaga	2760
gcactgcagc	atccagcctt	tcaaagctga	ctctctcctc	tcattctgtg	gtcatttgac	2820
ttgatttttt	aagctaccct	gaatttccag	aatgcagggt	ctaaagaaat	ctagatgaga	2880
gaaagtattt	gaaaatgatt	tttaaatggt	ttttaaaaga	cacatctgac	attttttaaca	2940
acttagtaaa	agttgaaatg	accattctgt	gttagcataa	aagaaaacaca	atgaagtgtg	3000
tggcctctgg	agttagtctt	agtaaaactt	atgtctctgt	gtcaatgtta	acctgtctca	3060
gatcaagtaa	ttcttttca	aggttgggtt	ncngaggggg	ganaagaggg	gcttttctag	3120
gagaacgata	agaaatggaa	agactccttg	aagtgttgc			3159

<210> 17

<211> 2517

PA-0024 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 244622.1

<220>

<221> unsure

<222> 805, 810, 814

<223> a, t, c, g, or other

<400> 17

```
cttccttggc tcgctcacgc ctgctctcag aagctccgat ccagacacac gcgaggcgct 60
gtccttttcag caccacaagc tcgggctgag gagggaggac tcctggccgt cctcctcctc 120
ttcaaatagg cttgaatctg ctctgacccc ccacgagtgc agcacagtct gggaagaaag 180
gcgtaaggat ggtgaagctg aacagtaacc ccagcgagaa gggaaccaag ccgccttcag 240
ttgaggatgg cttccagacc gtccctctca tccctccctt ggagggttaat cacttacagc 300
tgctgtctcc agaaaagggtg attgtgaaga caagaacgga atatcagccg gaacagaaga 360
acaaagggaa gttccgggtg ccgaaaatcg ctgaatttac ggtcaccatc cttgtcagcc 420
tggccctagc tttccttgcg tgcactcgtg tcctgggtgg ttacaaagcc ttcacctatg 480
atcacagctg cccagagggg ttcgtctata agcacaacac ctgtatccca gcctccctgg 540
atgcttacta ctccctccag gaccccaatt ccagaagccg cttctacaca gtcacagcc 600
actacagcgt ggccaagcag agcactgccc gggccatcgg gccgtggctg tcagcagccg 660
ctgtcatcca tgagcccaag ccgccaaga cccagggccg ctagaggcct gccccagcca 720
gaatgggggg cgggggtggg aggaggaccc ccattggcta agccaagctc cagttacaag 780
acaacactgt actcctggga tatgntggcn ggtncggggc agggcagggg ggggggaaga 840
acgcacaaaa aacgtgggtg gtgctggagt tgtctgaacc gatatttctt tttgttcctt 900
ggtattgttg attcgtcgcc gagtcaggct catgtacaaa ggcattgttc gtgttgattg 960
ttcccatgta agatattttt aaagccactg cttattcttt gttaggaaaa tgtaacagca 1020
gaaaaggaaa gaaacaaaga acatgaacaa aaagcattaa actggctcca tcagaagacg 1080
ttgaagggca gtgaagagca cagactctgt gggcttctta gataagaaaa cgtagcttca 1140
gtgggggctc caggggttgca gagtatgagt gacacagacc gggactattc cattagcctg 1200
tggtctgcag ggtaggcccc caggaaatga ggaatggccg agctggagag aagagctgat 1260
tttggcatta ctaagcccag aacgcacata acccatagtg aaatgtgctg gcctctgggtg 1320
cattttgcaa gatgagcaca aactttctgg gctccatcc taggacctgg gcagaccac 1380
atggcctggg ctctgaatgc ccacctgccc acgggtgggt ctgcatcagc aaacgctgag 1440
gagtgggcag attttctttg tcttttgctt gcattttcta gatccacacc tggatactgc 1500
ccatgttgac gagacagcag cagggggaga gggagggaag gaagggtcgg ctgcaagaag 1560
gaaggcacgg gacaggcatg tgacactagg ccacaagcga taagcacagg cacctgactt 1620
ttaagttttt gtttgtttgt tgtttcccaa agtgctgata acaataacaa caacaatagg 1680
attccaacca ggagcctcaa gtgacagcca ggaagagacc tgaaggttgg ggccaccaca 1740
atgccaaatc gtttctaagg gaagctgaaa aatgggactg tcttttgccc acttcgttgt 1800
gttaaaaggg gacatttgct caaactcccc aaccgagttc tagaagctcc tgacaaggag 1860
gcagcatcca gccttgacca ggcctccag ttcctggaa ccgtatcagg cattcgctg 1920
cctctcacia atgtttcagg gaggccagtt ctgcaggggtg tcagctccag gaccacagc 1980
gccagaacca gctgggagaa ttggttattt gagatgtggt actgcttctc cacaagtctc 2040
ccacaggcca tgtaaagggt atttttttgt ggttgctgtg gttgctgaga tcacgtatg 2100
caacagctgg gtaataagac tagcatagct caaactatcc tgccaaacgc tctcatctga 2160
tttttccctc cttctcccc aacctccaat cacctgagt cacctgtaaa ttcatttgct 2220
attcaaagcg gaataacaag ttgtccctag caaaaccgct gagcgcttta taattttgtg 2280
gtgtattttt gtcagtaggt agcagagctt gggggagaag ggaggaaaaa taagactagc 2340
atagctcaaa ctatcctgcc aaacgctctc atctgatttt tcctcccttc tcccccaacc 2400
tccaatcacc ctgagtcacc tgtaaattca tttgtcatte aaagcggaat aacaagttgt 2460
ccctagcaaa accgctgagc gctttataat tttgtgggtg attttcctcc cttctcc 2517
```

<210> 18

<211> 391

<212> DNA

<213> Homo sapiens

PA-0024 US

<220>
<221> misc_feature
<223> Incyte ID No: 1055005.1

<220>
<221> unsure
<222> 4, 18, 23, 35, 47, 56, 75, 79, 96, 209, 211-213, 215-217, 223, 226, 244, 250, 326
<223> a, t, c, g, or other

<400> 18
ctgnccagct taaggtcnta acnatgccgg agacntgtag ataccancct ttcaanccac 60
tctctatttg aggcntcanc attctgaagg ataccngtga agccattgag gagctggtgg 120
aacctgtggc agcacatggc ccaaaaatcg aggaggagga acaagagcca gaacccccag 180
aaccatttga gtatattgat gattaaggnc nnnannntcg cantancttg gctgaagaag 240
attntccagn ctcattattgg gaatgcttat gaggaaattc atgccgagac ctgctattca 300
atgcatgtat cgttgccctc gcactnacct gaagaaccct gtctccaagt ctttggttga 360
agagaagata tatgactgtt gactgtgtct t 391

<210> 19
<211> 1974
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 236240.3

<400> 19
gcaggttcca aagcgggtcc gagccgcgcg cgcgcgcgcg ccgcgcactg cagccccagg 60
ccccggcccc cccacccacg tctgcgttgc tgccccgcct gggccgggcc ccaaaggcaa 120
ggacaaaagca gctgtcaggg aacctccgcc ggagtcgaat ttacgtgcag ctgccggcaa 180
ccacaggttc caagatggtt tgcgggggct tgcgctgttc caagaactgc ctgtgcgcc 240
tcaacctgct ttacaccttg gttagtctgc tgctaattgg aattgctgcg tggggcattg 300
gcttcgggct gatttccagt ctccgagtggt tgcggctggt cattgcagtg ggcattctct 360
tgttcctgat tgcttttagt ggtctgattg gagctgtaaa acatcatcag gtgttgctat 420
ttttttatat gattattctg ttacttgtat ttattgttca gttttctgta tcttgcgctt 480
gttttagccct gaaccaggag caacagggtc agcttctgga ggttggttgg aacaatacgg 540
caagtgtctg aatgacatc cagagaaatc taaactgctg tgggttccga agtggttaacc 600
caaatgacac ctgtctggct agctgtgtta aaagtgaaca ctctgtctcg ccatgtgctc 660
caatcatagg agaatatgct ggagagggtt tgagatttgt tgggtggcatt ggctgttct 720
tcagttttac agagatcctg ggtgtttggc tgacctacag atacaggaac cagaaagacc 780
ccgcgcgcaa tcctagtcca ttctttgat gagaaaacaa ggaagatttc ctttctgatt 840
atgatcttgt tcaactttctg taattttctg ttaagctcca ttgcccagtt taaggaagga 900
aacactatct ggaaaagtac cttattgata gtggaattat atatttttac tctatgtttc 960
tctacatgtt tttttcttcc cgttgctgaa aaatatgtga aacttgtggt ctctgaagct 1020
cgggtggcacc tggaaatttac tgtattcatt gtcgggcaact gtccactgtg gcctttctta 1080
gcattttttac ctgcagaaaa actttgtatg gtaccactgt gttggttata tgggtgaatc 1140
gaacgtacat ctcaactgta taattatatg tagcactgtg ctgtgtagat agttcctact 1200
ggaaaaagag tggaaattta ttaaaatcag aaagtatgag atcctgttat gtttaaggga 1260
atccaaattc ccaatttttt ttggtctttt taggaaagat gtgttggtgt aaaaagtgtt 1320
agtataaaaa tgataattta cttgtagtct tttatgatta caccaatgta ttctagaaat 1380
agttatgtct taggaaattg tggtttaatt tttgactttt acaggtaagt gcaaaggaga 1440
agtggtttca tgaaatgttc taatgtataa taacatttac cttcagcctc catcagaatg 1500
gaacgagttt tgagtaatca ggaagtatat ctatatgac ttgatattgt tttataataa 1560
tttgaagtct aaaagactgc atttttaaac aaagttagtat taatgcgttg gccacgtag 1620
caaaaagata tttgattatc ttaaaaattg ttaaataccg ttttcatgaa atttctcagt 1680
attgtaacag caacttgtca aacctaaagca tatttgaata tgatctccca taatttgaaa 1740
ttgaaatcgt attgtgtggc tctgtatatt ctgttaaaaa attaaaggac agaaaccttt 1800
ctttgtgtat gcatgtttga attaaaagaa agtaatggaa gaattgatcg atgaattaag 1860
tgaggtggaa ttcttttctt tctgcttttag cttctctctg ttggacttag agctgggtat 1920

PA-0024 US

tgctattttta gtgtataatc aagctgtgga aataaatttc cagcattaat gtct 1974

<210> 20
<211> 2445
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 332162.5

<400> 20
gggggatggg gagagaagag ggatagggcc agcaaggcag ggatcgaacg agtgtctggc 60
agccgggagc ccagcgaaga gagcgagcaa gcttaggaaa acgagcgaag taaagggagt 120
aggggagact gagactgacc ggtagccagg caggcggacg gacgcacgcc cggacagact 180
gagcaggcgc cggagaacca ctcacagggt ccccccgcc ttccctttga aagctaggat 240
tttgcccttc ccgtggcgcc cgagagagaa tgctggactc tgccgacttc agcgcaagct 300
aagattttct agctaggac aaacgatcag cccaatcctg agaagggggg aaccaagcac 360
cccgccccca tccccctccc ctcccccgac taaactcggt cgccaaaccc agcccttctc 420
taaccaccct acttctctct ctcttttcta gcatgggtggc tgtatggaca gtctgacaga 480
acagagactg acatctccca atctgccggc cccccacctg gaacactaca gtgttctgca 540
ttgcaccatg accctggatg tgcaaactgt agtcgttttt gccgtgattg tagtcctcct 600
gcttgtcaat gtcatactca tgttttttct gggaaacgcgc tgaatggagt ccagccacct 660
gagctgtcgc gaactctcgc tttgatttca tcccagagac caccgagaaa aaaaaaaaaa 720
ccacagacag agacagggaa agagagagaa agaacaagct ttcttactca ggggggaaaa 780
cgttttgagc ttcaacatgg cctcgctgtg atatctgac actggagatt ccatcggttag 840
tgctgaggca gtatgggatc acgtcaccat ggccaaccgg gagttggcat ttaaagctgg 900
cgacgtcatc aaagtcttgg atgcttccaa caaggattgg tggtagggcc agatcgacga 960
tgaggaggga tggtttctct ccagctttgt gaggtctctg gtgaaccagg aggatgaggt 1020
ggaggagggg ccagcagatg tgcagaacgg acacctggac cccaattcag actgcctctg 1080
tctggggcgg ccactacaga accgggacca gatcggggcc aatgtcatca atgagataat 1140
gagcactgag cgtcactaca tcaagcacct caaggatatt tgtgagggct atctgaagca 1200
gtgccggaag agaagggaca tgttcagtga cgagcaactg aaggtaatct ttgggaacat 1260
tgaagatatc tacagatttc agatgggctt tgtgagagac ctggagaaaac agtataacaa 1320
tgatgacccc cacctcagcg agataggacc ctgcttctca gagcaccaag atggattctg 1380
gatatactct gagtattgta acaaccacct ggatgcttgc atggagctct ccaaactgat 1440
gaaggacagc cgctaccagc acttctttga ggctgtcgc ctcttgacg agatgattga 1500
cattgctatc gatggttttc ttttgactcc agtgcagaag atctgcaagt atcccttaca 1560
gttggtctgag ctctaaagt atactgccc agaccacagt gactacaggt atgtggcagc 1620
tgctttggct gtcagtgaag atgtgactca gcagatcaac gaacgcaagc gacgtttaga 1680
gaatattgac aagattgctc agtggcaggc ttctgtctca gactgggagg gcgaggacat 1740
cctagacagg agctcggagc tgatctacac tggggagatg gcctggatct accagcccta 1800
cgcccgcaac cagcagcggg tcttcttct gtttgaccac cagatgggtcc tctgcaagaa 1860
ggacctaatc cggagagaca tctgtacta caaaggccgc attgacatgg ataaatatga 1920
ggtagttgac attgaggatg gcagagatga tgacttcaat gtcagcatga agaattgcctt 1980
taagcttcac aacaaggaga ctgaggagat acatctgttc tttgccaaga agctggagga 2040
aaaaatacgc tggctcaggg ctttcagaga agagaggaaa atggtacagg aagatgaaaa 2100
aattggcttt gaaatttctg aaaaccagaa gaggcaggct gcaatgactg tgagaaaagt 2160
ccctaagcaa aaaggtgtca actctgccg ctgagttct ccttctctacc caccaccgca 2220
ggacccgtta aaccacggcc agtacctggg ccccgacggc atcgctcagt cgcaggtctt 2280
tgagttcacc gaacccaagc gcagccagtc accattctgg caaaacttca gcaggttaac 2340
ccccttcaaa aaatgatacc tacagggagg cagataattt taaaataaag taaataaaat 2400
tatattttatt aatacgactc actatagggg gaatccaaat acaac 2445

<210> 21
<211> 5708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 331744.3

<400> 21

```

gcacatccct gcactagtgg ccgcaaccga gacgccgcgc tccagcagct gctgccgccc 60
agccccggccc cgccgcgcgc cccagccct gcagccccgc agccccggcc gcgcccagcc 120
cggcgaggac agcaccagga ggcggccccc agcgcgccca caaagacccc cgcgggcgtc 180
tctccgcgga ccggtcctac ttgaagtcca tcatgtcctt cggcagagac atggagctgg 240
agcacttcga cgagcgggat aaggcgcaga gatacagccg agggctcgcg gtgaacggcc 300
tgccgagccc gacgcacagc gccactgca gcttctaccg caccgcacg ctgcagacgc 360
tcagctccga gaagaaggcc aagaaagttc gtttctatcg aaacggagat cgatacttca 420
aagggaattgt gtatgccatc tccccagacc ggttccgatc ttttgaggcc ctgctggctg 480
atttgaccgg aactctgtcg gataacgtga atttgcacca gggagtgaga acaatctaca 540
ccattgatgg gctcaagaag atttccagcc tggaccaact ggtggaagga gagagttatg 600
tatgtggctc catagagccc ttcaagaaac tggagtacac caagaatgtg aaccccaact 660
ggtcggtgaa cgtcaagacc acctcggtct ctcgggcagt gtcttccact gccactgcca 720
aaggaagccc ttcagagggt cgagagaata aggatttcat tcggcccaag ctggtcacca 780
tcatcagaag tggcgtgaag ccacggaaag ctgtcaggat tctgtgaac aagaaaacgg 840
ctcattcctt tgagcaggtc ctcaccgata tcaccgatgc catcaagctg gactcgggag 900
tgggtgaaac cctgtacacg ttggatggga aacagggtgat gtgccttcag gacttttttg 960
gtgatgatga catttttatt gcatgtggac cggagaagtt ccgttaccag gatgatttct 1020
tgctagatga aagtgaatgt cgagtggtaa agtccacttc ttacaccaa atagcttcat 1080
catccgcgag gagcaccacc aagagcccag gaccgtccag gcgtagcaag tcccctgcct 1140
ccaccagctc agttaatgga acccttggtg gtcagctctc tactccgcgc tcaggcaagt 1200
cgccaagccc atcaccacc agcccaggaa gcttgcggaa gcagaggagc tctcagcatg 1260
ggcgctcctc tacgtcactt gcgtccacca aagtctgcag ctcgatggat gagaacgatg 1320
gccctggaga agaagtgtcg gaggaaggct tccagattcc agctacaata acagaacgat 1380
ataaagtcgg aagaacaata ggagatggaa attttgctgt tgtcaaggaa tgtgtagaaa 1440
gatcgactgc tagagagtac gctctgaaaa ttatcaagaa aagcaaattg cgaggcaaag 1500
agcacatgat ccagaatgaa gtgtctattt taagaagagt gaagcatccc aatatcgttc 1560
ttctgattga ggagatggat gtgccaactc aactgtatct tgtcatggaa ttagtaaagg 1620
ggggagacct ttttgatgcc attacttoca ctaacaaata caccgagaga gacgccagt 1680
ggatgctgta caacctagcc agcgccatca aatacctgca tagcctgaac atcgctccac 1740
gtgatataca gccagagaac ctgctgggtg atgagcacca agatggcagc aaatcactga 1800
agctgggtga ctttgactg gccaccattg tagacggccc cctgtacaca gtctgtggca 1860
ccccaacata cgtggctcca gaaatcattg cagagactgg atacggcctc aagggtggaca 1920
tctgggcagc aggtgtaatc acttatatcc tgctgtgtgg ttccctcca ttccgtggaa 1980
gtgggtgatga ccaggaggtg ctttttgatc agattttgat ggggcagggt gacttttctt 2040
ctccatactg ggataatgtt tccgattctg caaaggagct cattaccatg atgctgttgg 2100
tcgatgtaga tcagcgattt tctgtgttcc aagtacttga gcatccctgg gttaatgatg 2160
atggcctccc agaaaatgaa catcagctgt cagtagctgg aaagataaag aagcatttca 2220
acacaggccc caagccgaat agcacagcag ctggagtttc tgtcatagca ctggaccacg 2280
ggtttaccat caagagatca gggctcttgg actactacca gcaaccagga atgtattgga 2340
taagaccacc gctcttgata aggagaggca ggttttccga cgaagacgca accagatgt 2400
gaggagccgg tacaaggcgc agccagctcc tcccgaactc aactcggaat cggaagacta 2460
ctcccaagc tctccgaga ctgttcgctc ccctaactcg cctttttaat aagacccttt 2520
tactcaaagt cctagcttaa ccctttgaga ctctgagatt tttttcccc aaatttgtgt 2580
aaaacagttt catctgatct atctagcgct caatgcttga atggcagaac tgaaagtgtt 2640
ttcaggatc tttgtagcgg tttcccttta ctgaataaga tgacacgtgg tgatttgtga 2700
gatggtaatt tgctgtaatt agagtctca aagggttaag gccaatttgc aatttttttt 2760
taaacttaga agcaatgaat gttttcatca gtcaagctag gatctgcagt atgtaataa 2820
gcacttgta accctctgag tgcatagaat tttattgaga attcttgttt gggaaatttt 2880
caggcctttg gatgtatata cacatgtttc ttgattttac tgcagatcaa ggggtgttgt 2940
tagatgctga aatgtccaga aaagaaggac atttagaatg atatcttgtt tgtccttttc 3000
tgtgggttta gaacgtggca ggtttataac ttcgacacac gcacggttct ttcttttcca 3060
caatcctatt cagaacaga tttttttttt cattagagat atgactgtca gtttcagtga 3120
gttctgcatc ccaagtggag ggaattgggt ttgtggcaaa gagcttgacc caggaaatag 3180
atggtgcccc ccaaattgtc tccacatgaa gatgtactga tgacgcccc gaaatgctgc 3240
ttccatatca gctgctgcta gcgccagcgc agactctcag ggagtcacca cagcttgtct 3300
tgtgcttggg gagtgagggt ctctctactc agtgtcagac atctacagga aagaaacaac 3360
tgggtgaaaa gagcaataaa ttgcccgggt ctctgcaggg ctggaatttc aaacagaaag 3420
agggaaatag atcctgtgat ttttctcacc tgcttttcca cgcactgtgg tcatcactgt 3480

```

```

gcaatctaca tctagtatga aatccacaca taggagagct ggggcacaag gggactggag 3540
gcagttgctt tgcaagatgg ctgaggagaa agcacactgg gaacacaatc cagaatgttc 3600
taagcaataa gttttcagtg aataaaccac tggcaagaca attccatgtg caccttttagg 3660
ttacctatat agtctcctag gaagatcagg atgaaagacc tagatgatac ccctgaggat 3720
aaaacctcca tcccctaaaa tgattttttt taaataccac tgtcttttagc tgtccaggag 3780
gtcagagtgt tttttctgtc tttgggccaa gtctgtctg agacctgtat tttcactctt 3840
gttaccaaatt ctatctccct agtgcagtggt ctccaggcct gagtttcttc tggaacagat 3900
tccatttttag aatgggggatt cacaggttct gtgcatcacc acagtgtctc gagaggattc 3960
tcctgggggtg tcttagaggc aggtgcccaa ctcaaagtga ttccaagggt ttgctgggct 4020
ctgggatcca cgagacaacc agagagggat atctcatgaa atttgcatct ggtggctgaa 4080
cagtacctat gttctctgtt ttgaatatac ttttaatacct gagagtctta aaattttgtga 4140
acaacgtttc tatagtcctt tattttcaaa tgcacattga tcttcacttg ctgcattttt 4200
actcttcaac cctgaaacta tgggtctacat taatatggat ttttaaatca catgtcatta 4260
cttttgcaac accatcacca aaattttttg ctcttttaca tttagggttc tctctgtggg 4320
ctgtgttggtc ctgacatgta aaaagcatat cgtttattga ggtttttttc cccccctttt 4380
agagcatccg gaagtgataa cagcgaanaa cacaagtag cataaatcag taaattagtt 4440
gagttgtttt tggggggggag gtgggggtag ggggcacaga acaccagaaa gagtgttggg 4500
gtgtaggtag attccatatt aatgaggaa actgaactag ttggaaatta ctgctttctc 4560
tagaaatata aagcaaagca ctattccaag gctatggagt agctctacag cctggcctca 4620
actctaaaag tgtgaagaat gcaatgggca gagacctacc tgcagtggac tgtcattttc 4680
ctttctttct ctgaattact gctttttctg tgggcattaa ctatattgct acagcatcta 4740
gtgtactgag cctgcggtgc atggctcagg ccttttccca tgcacgtcta gggggactct 4800
ggaccgtgtg aagctagggg gtgttttctc gcacactgca gaagggcagc tcagaagaat 4860
gcagggccca ttcagcatgg ggatcccagc acatcactgt agaatttgag tgatctatgc 4920
tgaataaaca gtggaatgtg accagtcaag tagaaatctt gagtaatcag gtggaatgca 4980
atctttctaa cattaagcta ccaagatcct gaatgtcaga gatgtactca gagggttaac 5040
agacaagcac aaggcatgct gactacattg gtgtatccag attgctttgc ttttagccag 5100
tgctttctaa tttttttctc gacattcttg ggatagttca agtttgaaat aattaagtg 5160
tgggtgttct taaggaattt ctataaccaa attgatctta tttttgattt cacttatcat 5220
agaacaataa tgtatcatta tggcagtgtg tctatgtaat tatcaattta atcatcacca 5280
ccggtgtttc catatttttt cccaagtatt taatatagct ctcttatggg ggtggcctgg 5340
tgatggggac cgtctttctt ttactgacac atgaccaatc atatggtatt ttcaagggaa 5400
ttttaagatt catcttttca gtttgatagt agactagtta aggaagaact ctttcattac 5460
ttgcatcggt taaatcatct ctgtagacat gtgttcatat taatgaacac attttttctc 5520
aacattgtag cagaaatcat tttattcgct atgatcaatg aatatgtgat ttgctccaga 5580
tcgtagaag gaaaagtaag atttcagtca tcaaaaatgt ttttaccgta gccctcatct 5640
aacttacacg tgggtcatat taaaataagc agagaaaaaa aaatgtgaat aaactactga 5700
aaacactt                                     5708

```

```

<210> 22
<211> 9434
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 407676.3

```

```

<220>
<221> unsure
<222> 6500, 6506
<223> a, t, c, g, or other

```

```

<400> 22
gggataatgc tcccgagaag gattctggca gcagttctca aaggctagac ttgagtggta 60
ttgctgcata tgcgctgatt cttcagcttg tctctaaccg aggaagcatt gattgggagc 120
tactcattca gaaaattaaa agaaagaagc cagaaaatat tatcaaccct ttgagaacac 180
gacacaacga actttatatt ttaccacttc cttgaatagt tgcaggagaa ataacaaggc 240
attgaagaat ggcagatgaa cggaaagatg aagcaaaggc acctcactgg acctcagcac 300
cgctaacaga ggcactctgca cactcacatc cacctgagat taaggatcaa ggcggagcag 360
gggaaggact tgtccgaagc gccaatggat tcccatacag ggaggatgaa gagggtgcct 420

```

ttggagagca	tgggtcacag	ggcacctatt	caaataccaa	agagaatggg	atcaacggag	480
agctgacctc	agctgacaga	gaaacagcag	aggaggtgtc	tgcaaggata	gttcaagtag	540
tcactgctga	ggctgttagca	gtcctgaaag	gtgaacaaga	gaaagaagct	caacataaag	600
accagactgc	agctctgcct	ttagcagctg	aagaaacagc	taatctgcct	ccttctccac	660
ccccatcacc	tgctcagaa	cagactgtca	cagtggagga	agcctcgaag	atggagattcc	720
acgatcaaca	ggaattgact	ccctctacag	ctgagccttc	agaccagaag	gaaaaggagt	780
cagagaagca	aagtaagcct	ggtgaagacc	ttaaaccatgc	tgcttagtt	tctcagccag	840
agacaactaa	aacttacccct	gataaaaagg	acatgcaagg	cacggaagaa	gaaaaagcac	900
ccctagcttt	gtttgggcac	actcttggtg	ccagcctgga	agacatgaaa	cagaagacag	960
aaccaagcct	tgtagtacct	ggcattgacc	tccctaaaga	gcctccaact	ccaaaagaac	1020
aaaaggactg	gttcacgaa	atgccaacgg	aagcaaaaaa	ggatgagtgg	ggtttagttg	1080
cccccatatc	tcctggccct	ctgactccca	tgagggaaaa	agatgtattt	gatgtatcc	1140
caaaatggga	agggaaacag	tttgattctc	ccatgccaaag	tccctttcaa	gggggaagct	1200
tcactcttcc	tttagatgtc	atgaagaatg	aaatagttac	agaaacatcg	ccctttgccc	1260
ctgccttttt	acagccagat	gacaaaaaat	ctctgcaaca	aaccagtggc	ccagctactg	1320
ccaaagatag	ttttaaaatt	gaagagcccc	atgaggctaa	acctgacaaa	atggcagaag	1380
caccaccctc	agaggcaatg	accttaccca	aagatgctca	cattccagtt	gtagaagaac	1440
atggttatggg	gaaagtttta	gaggaagaaa	aggaggccat	aatcaagag	actgtgcagc	1500
aaagggatac	tttcaccccc	agtggacagg	aacctatact	tactgaaaag	gaaactgagc	1560
tgaagcttga	agaaaaaacc	accatttctg	acaaagaagc	tgtgccaaaa	gagagttaaac	1620
ccccaaaacc	tgcatatgaa	gaaataggca	taattcagac	ctccacagag	cacactttct	1680
cagaacagaa	agaccaagag	cctaccacag	atatgttgaa	acaggactcg	ttccctgtaa	1740
gtttggagca	agcagttaca	gattcagcca	tgacctctaa	aacactggag	aaagccatga	1800
ccgaaccatc	tgcatatatt	gaaaagagct	caattcagga	actttttgaa	atgagagtgt	1860
atgacaaaaga	taagattgaa	ggagtgtggag	ctgcaacatc	agctgagctt	gatattgcat	1920
tttatgaaga	taaatcagga	atgtccaagt	actttgaaac	atctgccttg	aaagaagaag	1980
caacaaaaag	cattgagcca	ggcagtgtat	actatgaact	gagtgcact	agagaaagtg	2040
tccatgagtc	tattgatacc	atgtctccca	tgcataaaaa	tggtgacaag	gagtttcaaa	2100
caggaaaaaga	atcccagccc	agtccctccag	cacaagaagc	aggggtacagc	actctcgcac	2160
agagttatcc	atcagattta	cctgaagaac	ccagttctcc	tcaagaaaga	atgttcaata	2220
ttgatccaaa	agtgtatgga	gagaaaaggg	acctccacag	taagaataag	gatgatttga	2280
cccttagcag	gagtttagga	cttggtggta	ggctctgcaat	agaacaaaga	agcatgtcaa	2340
tcaatttgcc	gatgtcttgc	ctagattcca	tagcccttgg	atttaacttt	ggtcggggac	2400
atgatctttc	tcctctggct	tccgatattc	taaccaacac	tagtggaagt	atggatgaag	2460
gggatgatta	ccttccagcc	accacacctg	cactggagaa	agcccccttg	ttccctgtag	2520
aaagcaaaga	ggaagaacag	atagagaag	taaaagctac	tgagaaagaa	agtactcaag	2580
cggagatatc	atgtgagttc	cctttcctag	ccaaagattt	ttacaaaaat	ggtactgtca	2640
tggcacctga	ccttctctgaa	atgctagatc	tggcaggcac	aagggtcaaga	ttggcttctg	2700
tgagtgcaga	tgctgaggtt	gccaggagga	aatcagttcc	atcagagact	gtggttgagg	2760
atagtcgtac	tggcttgccc	ccggttaactg	atgaaaacca	tgtcattgta	aaaacggaca	2820
gtcagctcga	agacctgggc	tactgtgtgt	tcaataagta	cacagtccca	ttgccatcac	2880
ctgtttcaaga	cagtgagaat	ttatcagggg	agagtggtac	cttttacgaa	ggcactgatg	2940
ataaagttcg	aagagatttg	gccacagacc	tttactgat	tgaagtgaag	ctggcagcag	3000
ccggaagagt	caaagatgag	ttcagtgttg	acaaagaagc	atccgcgcac	atctctggtg	3060
acaaatcagg	actgagtaag	gagtttgacc	aagagaagaa	agctaattgat	aggttgagata	3120
ctgtactaga	aaagagtga	gaacatgctg	attcaaaaaga	acatgccaaag	aaaactgaag	3180
aggctggtga	tgaatatagaa	acattcagat	taggagtaac	ctatgagcaa	gctttggcca	3240
aagatttgtc	aataccaaca	gatgcatect	ctgagaaagc	agagaagggt	cttagttcag	3300
tgccagagat	agctgaggtg	gaaccatcca	aaaagggtgga	acaaggctctg	gattttgctg	3360
tccagggtca	actagatgtt	aaaattagtg	actttggaca	gatggcttca	gggctaaaca	3420
tagatgatag	aagggcaaca	gagctaaaac	ttgaggctac	acaggacatg	acccctcat	3480
ccaaagcacc	gcaggaggca	gatgcattta	tgggtgttga	gtctggccac	atgaaagaag	3540
gcactaaagt	tagtgagaca	gaagtcaaaag	agaagggtggc	caagcctgac	ttggtgcacc	3600
aggaggctgt	agacaaggag	gagtcctatg	aatctagtgg	tgagcatgaa	agtctcacca	3660
tggagtcctt	gaaagctgat	gagggcaaga	aggaacatc	tccagaatca	tctctaattc	3720
aagatgagat	tgccgtcaaa	ttgtcagtgg	aaataccttg	cccacctgct	gtttcagagg	3780
ctgatttagc	cacagatgag	agagctgatg	tccagatgga	atttattcag	gggcaaaaag	3840
aagaaagcaa	agagacccca	gatatatcca	tcacgccttc	tgatgttgca	gagccattgc	3900
atgaaacgat	cgtatctgaa	ccagcagaga	ttcagagtga	ggaagaagag	atagaagccc	3960
agggagaata	tgataaactg	ctcttccgct	cagacaccct	tcagataact	gacctgggtg	4020
tctcaggtgc	caggaggtaa	tttgtggaga	cctgcccaga	tgaacacaaa	ggagtgattg	4080

```

agtctgttgt gaccatcgag gatgatttca tcaactgtagt gcaaaccaca actgatgaag 4140
gggagtcagg gtccacacagc gtgcgtttttg cagccctaga gcagcctgag gtggaaagga 4200
gaccatctcc tcatgatgaa gaagagttttg aagtagaaga ggcagctgaa gcccaggcag 4260
aaccctaaaga tggttcccca gaggtccag cttccctga gagagaagag gttgcacttt 4320
ctgaatataa gacagaaacc tatgacgatt acaaagatga gaccaccatt gacgactcca 4380
tcatggacgc tgacagcctc tgggtggaca acaagatga tgataggagc atcatgacag 4440
aacagttaga aactattcct aaagaggaga aagctgaaaa ggaagctcgg agatcatctc 4500
ttgagaaaca tagaaaagaa aagccttttta aaaccgggag aggcagaatt tccactcctg 4560
aaagaaaagt agctaaaaag gaacctagca cagtctccag agatgaagtg agaaggaaaa 4620
aagcagttta taagaaggct gaacttgcta aaaaaacaga agttcaggcc cactctccct 4680
ccaggaaatt catttttaaaa cctgctatca aatatactag accaactcat ctctcctgtg 4740
ttaagcggaa aaccacagca gcaggtgggg aatcagctct ggctcccagt gtattttaa 4800
aggcaagga caaagtctct gacggagtaa ccaagagccc agaaaagcgc tcttctctcc 4860
caagaccttc ctccattctc cctcctcggc gaggtgtgtc aggagacaga gatgagaatt 4920
ccttctctct caacagttct atctcttctt cagcacggcg gaccaccagg tcagagccaa 4980
ttcgagagc agggaaagag ggtacctcaa ccccactac cctgggtct actgccatca 5040
ctcctggcac ccaccaagt tattcttcaa gcacaccagg cactcctgga acccctagct 5100
atccaggagc ccctcacaca ccaggaaccc ccaagtctgc catcttggtg ccgagtga 5160
agaagtcgc catcatagct actcctccaa aatctcctgc gactcccaag cagcttcggc 5220
ttattaacca accactgcca gacctgaaga atgtcaaatc caaaatcgga tcaacagaca 5280
acatcaata ccagcctaaa ggggggcagg tacaattgt taccaagaaa atagacctaa 5340
gccatgtgac atccaaatgt ggctctctga agaacatccg ccacaggcca ggtggcgac 5400
gtgtgaaaaat tgagagtgtg aaactagatt tcaaagaaaa ggccaagct aaagttggt 5460
ctcttgataa tgctcatcat gtacctggag gtggtaattg caagattgac agccaaaagt 5520
tgaacttcag agagcatgct aaagcccgtg tggacatgg ggctgagatc attacacagt 5580
ccccaggcag atccagcgtg gcatcacccc gacgactcag caatgtctcc tcgtctggaa 5640
gcatcaacct gctcgaatct cctcagcttg ccactttggc tgaggatgtc actgctgcac 5700
tcgctaagca gggcttgtga atatttctca ttttagcattg aaataataat atttaggcat 5760
gagctcttgg caggagtggg ctctgagcag ttgttatatt cattctttat aaaccataaa 5820
ataaataatc tcatcccaa actgtagtaa ttgttacaat tttctattta aaaaatgaat 5880
agtacatgca gaaattgacc tgatttccat ttgcaacagg aagacactgg ctttacatgg 5940
gttcaattgg acaattattt ttgctctgct ctgttttgca tggagtatta ttattttaa 6000
aattgcattt ttacctttca tgtgctgaa ggctatccac tacattctga aggccttggt 6060
aaaatccaag ctgctcattt cactattctg tttctgagtg agaagataaa aactgccc 6120
tgtaacttat ttcagggttaa attaaaccaa ggagtctgat tgcaggaagg gaagagcatg 6180
taagaaataa gtttttttaa agtgttattt tgtataaatg ggaagaaaga ttcaattaag 6240
ttattaacat ttgggacctg gataattata tcagagtatg tcagtccaat aaattattta 6300
actaattaaa aaatagttgc aaagcatttg agctgtgggt gaggaagtgg tgtaaaagt 6360
catccattag gaatgatgca ctttcattag gatggactcg tgtctgatta gaatgtcagt 6420
tgatcagcta gatttgtgtc cacactacca gtttcacacc ccctttccat ctgtttgata 6480
cagtattata gatataaatn tataatntatt tctctgtggc catttgtgat acttccctcat 6540
atacttgaat attatacttc tttattcaca gtatctgtgt ctctgcacc ctttgggtgt 6600
gcaatttttag atagtgaat gtatgttctt gcagggttct ctccctattt aaaaaata 6660
cattaaaaaa gacaaaaaat tttagcatga agttgcttcc tgtaacaact caaagccgta 6720
accctgtttt agtgccagat acaagtctct cccgtgatgc tagacaaaaa attatttttc 6780
tttgctttca ccaacatgga gtttgtgggg gtgggtccag ttatacatga aagggtttac 6840
agattgttgg ttttaagatta tggatttata tcatttttaa tcacaggata gtttgggggt 6900
tattcctatt attattcatg aaaccgactt aagatttttt ctttattttt ctttttttt 6960
ccatttgcta aagttgaaag ttgaaactaa ctataatagt ttgaaacatg ttttctcatt 7020
tttccaaata gtatctgttt attaaattct ctaatagaag atgtttgtct ttcttacc 7080
aagtaaagat cccctgatca gaaagaaaaa atacaatact ttgggaagct atagctataa 7140
aacacttgag acacagatat ctaaatacagt ttttttccaa gactccaaca ttgactctg 7200
taaagtaaca cactgtgatc tagtattatt tatcagtaga taatactgtt ctgactgtat 7260
atacagtcta gaactcacaa atcaattagt tctctcaca aatcattcat cttagactta 7320
caataaagga atgaaatagt caatggcctg atcaagcaca agagctacca ggctagatgg 7380
acacttttta aaaattttat ctgttctttt tcttgctcag ggctggtagg ttggatctga 7440
accattaaaa tcaaattggtc cactaggcgt atgatctctt tgagccaaat cagttcctga 7500
atataaagga ggaatgatg aggatgtact gaggcaacgg ggaagtatag aaacatccaa 7560
gacaaaagcc aagggatgca aaggcagaga cacagggtgct ttttggtgac ccagtgata 7620
tggcaaccag tgtaactgcc atacaagaaa ccctaggagc aaaccacac cactcattct 7680
cagctaagag attttacaa ggcaaacgtg tcttaaacc tctataaatc agttatttta 7740

```

tatgacagtc	aaaaccttag	aaaccttagg	atcattatat	ctattttctg	cctattaatt	7800
gctgtgaggt	ttgatttgac	caatctgggc	aattttattca	tcagcttccc	ttgaagtgca	7860
ccagaaaata	gaagaaaggt	gtgtggagac	ttaggggtatt	ttattacatg	ttttcatagt	7920
cttaaatagt	gattaaattt	ctctagaaag	aagttaacag	ctcattagaa	aagttttaac	7980
ctgtgaaata	agtatttttc	tcaacattct	ttaaagtttt	tatataagtt	aacactaggt	8040
aaacattctg	catactagaa	gtcagtttat	tacaaataca	tgtcaaaaat	aaagattata	8100
caaggcacca	aactactaga	tttggcatta	aaacaaatgt	ttattttctaa	tcacaacaaa	8160
attataatga	ataaatgttc	ttgcttttga	tggaaataca	attcttttatt	aaagttaaca	8220
gaaaggaact	gatcgtttgt	accagtaaaa	gagagaaaca	cacagggttaa	atatcttctt	8280
gtgggggttaa	ggggtagaac	ctatcttgcc	ttcactctca	agataacgac	tcaaattaag	8340
cttttttgagc	accactcttg	tggggacaca	catacgtga	tctaggaatg	aaatcttcgt	8400
gggtctcaatt	ctagatctac	tatgccagtt	tctctctggc	tttagccttt	gagaacctgt	8460
ataagaatac	gtaagtaatc	cagagctgtg	aagagtttaa	aggccaactt	ctccagtga	8520
ctcaacctct	gggtcacttg	caaccagaaa	ttggatacct	cataatgatg	caggaaagac	8580
ccgagttcat	gatgagtttc	aaaggccacg	ttcatttagg	aaccaactct	ctctggattt	8640
acctgctgag	ttccagcagc	gtgatgggct	gacatcccac	ctacaagtat	gacacctgtg	8700
taacaccagc	taggtacggc	tggagaaggc	tgaagagaga	atgccattaa	atggaagaat	8760
gtactgattg	tagtgacctt	ctccacacac	acacacacca	cccacacaca	cacctacagt	8820
aatacagcaa	gcgtggaata	atcagccaat	atataacatt	ccatcagtat	tttattaagg	8880
aaataacctg	aatgtgggtg	attttgacat	agctgcaatt	acagttttct	tctatttttc	8940
aagccacaat	aaggaaaata	aactactcat	ggctctaaata	ctagagataa	agtagattca	9000
tggcttggtg	aggaaatttt	aagcattcct	tcaaagattg	acgtgctaaa	ataagcattg	9060
atgtttttgag	tttttttaca	cctaggattt	ttagcttggg	tgtgtaggtg	aaggccaaga	9120
ctctctgcag	gaaaaagctt	attttcaaac	tcagaaaata	aaatgtcaat	cataaaaaatc	9180
tacttcaact	ttagcaaaaa	gaaaaaaaaa	tcaacaaaaa	gtatactctg	tatgtgggga	9240
ttccgaggtt	ccaacacact	gttacaaatc	tgtggggggg	ttctttcttc	tgataattct	9300
agagcctggt	accatagaaa	ggcattttct	caatggctgg	ttgtagttag	ttcatgtttt	9360
tcaatcaaat	ttgcaaatgt	atttgttgct	gtatagtgat	tgttttgcaa	aataaaattg	9420
cttgtcacct	aaaa					9434

<210> 23

<211> 3588

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 344676.11

<400> 23

cgggctccag	cggcctcccc	cgccgcaacc	tctctctcgg	cgaagtctcc	ctggccgcgc	60
catgtcggcg	gccccgcct	acagcgaaga	caaggcgccg	tccgctggcc	cggggagcc	120
cgagtacggc	cacgaccccg	cgagcggcgg	catcttctcc	tccgactaca	agcgcatga	180
tgacctgaag	gagatgctgg	acaccaacaa	ggattctctc	aagctggagg	ccatgaagag	240
gattgtggcg	atgattgccc	gaggaaagaa	tgcttcagac	ctgtttcccc	cgggtggtgaa	300
gaacgtggcc	tgtaagaaca	tagaggtgaa	gaagcttgtc	tatgtgtacc	tggtacgcta	360
cgtgaggag	cagcaagacc	tggccctgct	gtccatctcc	acctccaac	gtggcctaaa	420
ggatcccaac	cagctgatte	gtgccagtgc	cctccgtgtc	ctctctagca	tccgtgtgcc	480
catcatagtg	cccatcatga	tgctagctat	caaggaagcc	gcctcggaca	tgtcacccta	540
tgtgcggaaa	acagctgccc	acgccatccc	taaactctac	agtttggact	ctgaccagaa	600
ggatcagctg	atagaagtca	ttgagaagct	tctggctgac	aagaccacgc	tggtggcggg	660
cagtgtggtg	atggcctttg	aggaggtctg	cccggagcgc	atcgacctga	ttcacaaaaa	720
ctaccggaaa	ctctgtaacc	tgctgatcga	cgtggaggag	tggggccagg	tggtcatcat	780
cagcatgctc	accgcgtacg	cccgcacgca	gttctctgagc	cccaccaga	acgaatccct	840
actagaggag	aagcgcgaaa	aagccttcta	cggctcagag	gaggacgagg	ccaagggcgc	900
ggggtctgag	gagacggccg	ccgcggccgc	ccccctccga	aagccctatg	tcatggacce	960
cgaccaccgg	ctgctgctgc	gcaacaccaa	acccctgctg	cagagccgca	gcgccgcggt	1020
ggtgatggcg	gtggcgagc	tctacttcca	cctggcgccc	aaggcggaag	tgggcgctcat	1080
cgccaaggcg	ctggtgcgcc	tgctgcgcag	ccacagttag	gtgcagtacg	ttgtgctcca	1140
gaacgtggcc	accatgtcca	tcaagcgccg	gggtatgttt	gagccctacc	tgaagagctt	1200
ctacatcagg	tccaccgacc	ccaccagat	taagatcctg	aagctggaag	tgctgaccaa	1260

```

cctggccaat gagaccaaca ttctactgt cctacgggaa ttccagacct atattcgag 1320
catggacaag gactttgtgg cagccacaat ccaggccatt ggacgctgtg caactaacat 1380
cggccgagtc cgtgacacct gcctcaatgg cctgggtgcag ctgctgtcca accgtgatga 1440
gcttgtggtt gcagagtcag tggctgctcat taagaaattg ctacagatgc agccagcaca 1500
acatggagag atcatcaaac acttggcaaa gcttacagac aacatccagg tgcccatggc 1560
ccgagccagc atcctgtggc tcatcggaga gtactgtgag catgtcccca ggattgcacc 1620
tgatgtctta agaaaaatgg ccaagtcatt cacagcagag gaggatattg tcaagctgca 1680
ggtcatcaac ctggcagcca agctctacct gaccaactct aaacagacca agctgctgac 1740
ccagtatgtg ctgagtcctgg ccaaatatga ccagaactat gatattcgcg accgggcgcg 1800
cttcacccgg cagctcatcg tcccttccga gcagggtggg gccctcagcc gccatgccaa 1860
gaagctcttc ctggcaccca aaccagctcc agtcttggag tcatccttca aagaccggga 1920
ccacttccag ctgggctcac tgtcccacct gcttaatgcc aaggccacag gctaccagga 1980
gctcccagag tggccggagg aagccccaga cccatctgtg cgcaacgtgg aggtacctga 2040
atggaccaag tgctcaaate gggagaagag aaaggagaag gaaaaaccct tctactcgga 2100
ctctgagggg gagtcaggcc ccacggagtc cgcagacagt gaccctgagt ctgagagtga 2160
atcggacagt aagagcagca gtgagagcgg ctctggggag tccagcagtg agtccgacaa 2220
tgaagaccag gatgaggatg aggagaaagg gagaggcagt gagagtgaac agagtgagga 2280
ggatggtaag aggaagacaa agaagaaggt gccagagaga aaaggagaag cgtcatcctc 2340
tgatgagggc agcgattcca gcagtagctc atcagagtcc gagatgacat cggagtccga 2400
ggaggagcag ttagaacctg cctcctggag caggaaaaca cctcccagca gcaaaagtgc 2460
tctgcaacc aaggagatct cctgtcttga tctagaggat ttcaccctc ccagtgtcca 2520
gcctgtgtct ccccagcaa ttgtgtctac cagtctggct gctgacctgg agggcctgac 2580
actcacagac tccacctggg taccgtcgtc tctgagtcca gtatcgggtg ttgggcggca 2640
ggagctgtcg caccgggtag ctggcgaggc gctggctgtg gactacacct tcagccgcca 2700
acctttctcc ggggatcccc acatgggtgc cgtgcacatc cacttctcca acagctctga 2760
taccctcctc aagggcctgc atgtgggcac tcccaaactg cctgctggca tcagcatcca 2820
agaatttccc gaaattgagt ccctggcacc tggagaatct gccactgctg taatgggcat 2880
taatttctgt gactcaacct aggcagccaa cttccagctg tgcaccagga cccgacagtt 2940
ctacgtctcc attcagccac ctgttgggga gctgatggcc cctgtgttca tgagtgaata 3000
tgagtttaag aaggaacagg gaaagctgat gggcatgaat gagatcacag agaaactcat 3060
gctgccagac acctgtcggg gtgaccacat tgtgggtcag aaagtgaact ccactgccaa 3120
cctgggtcgt gttccttctg ggacatctga tgagtacagg tttgcaggga ggacactgac 3180
tggtggaagc ctcttctgc tgaccctgga tgcccgcca gctggagctg cccagctgac 3240
tgtcaacagc gagaaaatgg tgattggcac catgctggta aaggatgtga tacaggctct 3300
gaccagtgat cttccaaatg ctgtgacctg tttggctccc atctatact ccccatgaca 3360
cctaggctgt cagtctctct catcttctc tctctctctc atcatcctc tcatgccaga 3420
tagcattcag ggtgtcctct cctcctctgg aggaccaagc cctcccctaa tgccctcccc 3480
atggattcct tagtgatctg tgcagagaga gatggcagcc actcccttca gtctctccag 3540
atttctgtag ctatttatgt agcaggctca ataaaatgtc ttctctct 3588

```

<210> 24

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 234735.15

<400> 24

```

aggctcggcc tccggcccag gcggcacccg cggcggaag gcactctgtc gggccatggg 60
tgggggcgtc ggggcctcga gctccggggg tggaccgggc ggcagcggcg gaggaggcag 120
cggaggcccc ggcgcaggca ctagcttccc gccgcccggg gtgaagctgg gccgtgacag 180
cgggaagggt accacagtcg tagccactct agggcaaggc ccagagcgct cccaagaagt 240
ggcttacacg gacatcaaag tgattggcaa tggctcattt ggggtcgtgt accaggcacg 300
gctggcagag accagggaac tagtcgcat caagaagggt ctccaggaca agagggtcaa 360
gaaccgagag ctgcagatca tgcgtaagct ggaccactgc aatattgtga ggctgagata 420
ctttttctac tccagtggcg agaagaaaga cgagctttac ctaaaatctg tgctggaata 480
tgtgcccag acagtgtacc ggggtggccc ccacttcacc aaggccaagt tgaccatccc 540
taccctctat gtcaagggtg acatgtacca gctcttccgc agcttggcct acatccactc 600
ccaggggcgtg tgtcaccgcg acatcaagcc ccagaacctg ctggtggacc ctgacactgc 660

```

PA-0024 US

```
tgctctcaag ctctgcgatt ttggcagtg c aaagcagttg gtccgagggg agcccaatgt 720
ctcctacatc tgttctcgct actaccgggc cccagagctc atctttggag ccactgatta 780
cacctcatcc atcgatgttt ggtcagctgg ctgtgtactg gcagagctcc tcttggggcca 840
gccccatctt cctgggggaca gtgggggtgga ccagctgggtg gagatcatca aggtgctggg 900
aacaccaacc cggaacaaa tccgagagat gaaccccaac tacacggagt tcaagttccc 960
tcagattaaa gctcaccctt ggacaaaggt gttcaaactc cgaacgccgc cagaggccat 1020
cgcgctctgc tctagcctgc tggagtacac cccatcctca aggtctctccc cactagaggc 1080
ctgtgcgcac agcttctttg atgaactgcg atgtctggga acccagctgc ctaacaaccg 1140
cccacttccc cctctcttca acttcagtg c tgggtgaactc tccatccaac cgtctctcaa 1200
cgccattctc atccctcctc acttgaggtc cccagcgggc actaccacc tcaccccgtc 1260
ctcacaagct ttaactgaga ctccgaccag ctccagactg cagtcgaccg atgccacacc 1320
taccctcact aactctctc gagggcccca ccaagcacc ttccacttc atctgggagc 1380
cccaagaggg gctgggaagg ggggccatag cccatcaagc tcctgcctg gctgggccc 1440
tagactagag ggcagaggta aatgagtc c tgtccccacc tccagtcctt ccctcaccag 1500
cctcaccctt gtgggtgggt ttttaagagg attttaactg gttgtgggga gggaagagaa 1560
ggacaggggt ttggggggat gaggacctc taccctctg gccctctcc ccccccaga 1620
cctccacctc ctccagacc cctccccctc tgtgtccctt gtaaatagaa ccagcccagc 1680
cgtctctcct ttcccttccc tggeccccgg gtgtaaatag attgttataa ttttttctt 1740
aaagaaaaacg tcgattcgca ccgtccaacc tggccccgcc cctcctacag ctgtaactcc 1800
cctcctgtcc tctgccccca aggtctactc cctcctcacc ccacctgga gggccagggg 1860
agtggagaga gctcctgatg tcttagtttc cacagtaagg tttgcctgtg tacaggacct 1920
ccgttcaata aattattggc atgaaaacct gc 1952
```

<210> 25

<211> 3821

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 197975.12

<220>

<221> unsure

<222> 550-578

<223> a, t, c, g, or other

<400> 25

```
ctcaggaaat tccaggcgca catcctgtgc caaggggagg ctcagaaagt ggagcgggctc 60
atagaggcgt tcagccagcg ctactgcaca ccacacaggg cagccccggg ggtcgccagc 120
cgcacaccaa acccggggca cttctgttgc catctctccc ctctgcccc cagggcccaa 180
ccggagcccc aggagccac ggggctgggt ttgtgtggaa caaaggccca gatttcattt 240
cttgtttgca ccttgggctc tgctcacctc agtctgaggg atgggtgggc ctcagacacc 300
atcagccttg aaacggtgag ccagccaagt agtggtgaac tgctcccc cctccagctc 360
tcagctccct gtgcctaat gtacatgcat atgaaaaccc aacctagaaa acgaagaaat 420
gagatacaaa aacagacaaa acaaacccca aaacttgctg cattattgct cttttattga 480
caatgggcaa aaaaataagt agacctgata tggttgatga aaatacgtaa gtaaaacttta 540
tataaatatn nnnnnnnnnn nnnnnnnnnn nnnnnnnnct gtataggtag tacttgtgtg 600
tgaaaggcag gcgtttcagt ccacattagc aatacccacc ttacaaggag ctccacttac 660
ctaataggaa gacagtacct tagctgggtg tgtgagacaa tagaccaaac cctaaatgct 720
aggaacaaat tcagatactt catattttca tacaagaag tccctctagg actggctaaa 780
atctttacac aatcattact aactgtgcca agtaacatag catctaactg tttaaaaagt 840
ccagtattgc tttgtataaa tccttatttt attaacagaa tactatcata aatagtatta 900
taatgctgtt atttcaggta agcaaatagc taaactgcag tacactctac agtagcaact 960
caggacagct ggttacaagc tggttgctt aggacattgg ttacacggat tcttagacac 1020
tttaattggc gcgataactg tgactctcca tgatccatgt ttcttttatg cgcataatgat 1080
ttgacgcaca ctcatcaga gtccctccgag aggggcaccc atacacggca gaagtgttca 1140
tctccaacat gaaagtgacc agctctcate ctgctctccc caacaccata acgtcctcat 1200
cccgctcca acccacacca ggccgaagcc ctccagagagt gttttcatca ggaaccactc 1260
tcgaacctga aggttgactt tagcgtttag caaccaggg cggtgtgtgt gtttcccgtt 1320
ttgttttctg agtggttagca gtgatcccg taattccatg tagccatgtg ctacgagaac 1380
```

```

cctgtgtgcc tcaccgtggc cctgttgacc ccagccgacg agtgcccggc ggagcccccg 1440
ctgccttccc atggtccagt gagctgccag ggcatacat gactctcage tgtgtctctg 1500
tcgtttctgt gttgtggtga caccatgcgc tccccagggc cagacctgca cgcggcaggt 1560
ctgtgcccga gtcacccacg ggccatactt tgtagtttca gcctttcgag ccactgcagc 1620
cgtcagtgtc gtgtctcctaa gccatgggac ccgaggactg ccccccggcg cctgcccagg 1680
cggaggccct ttcagaaagg gcgaagctca cgcctgactc tgcgggccgc ggggccgcgt 1740
tcccagtggg cagcgtggtg agccgtggcc ggacggcagg aggagagggg agccccctct 1800
ggctgtgtgt caccttggct ggctggctgg ccagggtttt gccgatttcc ctctcacat 1860
ccctccacc ctcggtcata tcattgagat caccgtacca gcaaatctgc aaaccaagca 1920
ctttgttaat ctccagagag agcaaataca gcaatctaga gtttagcctt tttaaaaatg 1980
tgactttaac ccgccacact gtgtcctccc attggcgtgg catttctttg gtgtctgtct 2040
agaaagaaac agcatgggac cgtgtgattg ggtccaggct gggctgtcag ggaagcgccc 2100
tgggtgtctc gactcatcaa ttctcgggtc tttttttaa agccaggctc cccaaagcac 2160
tctttgtctc gcaattttga ggaggttgtt ccgacctgga agcgttaaac tgctgcatgt 2220
catctggcgt cagctgtgag gctgcgctct gcgtgttgtg cgtttgcaa atgtattggc 2280
gtgactgtaa acacatcggt gaagtaaagc gattacatat tgagtatgtc agcttttctc 2340
accctcttct gtgctgggag gagagtctaa ctgtaacctt taggttgttc cagaaaagat 2400
tcaggccgtt tggcacagaa ttgctctttc tgaagggtag cagtaatgaa taggaacaga 2460
cagaaaaccc ccaggagggg ctttcaggaa actctccctc tccatcgcca tcttgcaagc 2520
tccacagcct cgggctgcca gcctgtggca ctgtcctcgg tgtgtcctgg agctgtgctg 2580
ggcagcaggg cctcgcgtaa ggaactgctg gaaccactg agcccttccc ggggtttccc 2640
gccgcactca gtgtgttcct tcaggctagt gaggtttcat tctgttttat ttgcaagctt 2700
atcaaaagtt tgtggaagat acattgttgg gttccagagg ctggagtcac gctgccaca 2760
tcttgtttgg gaaagcaaaa gctcccagtg agctggtgtc cccgtgtgtc tttcatggga 2820
ctgtccccct tagagatccc acctgtcaga gccacagctt cggggtcctg tcatcacatc 2880
ccctgggagg ggaggcagga ggaggccgag ggccccagga tgtctgcctg gtcccttctc 2940
actgtgagga cgcccttggc acacctttct caagtcacac aaattattgc agttacatac 3000
agaattgctg acaggagcag gagacgctga gggaaacagc tggcaatgtg acaaaagtct 3060
tttctgggac aacaatcaaa tcatgtattt gtattttttt aagtttacca atgaattgta 3120
caacaatgta aaaataaagt tcactctaatt atgctgtgca catcttgctt aaaaatgtct 3180
tcagcaccca gtgcagtgat ctttccctca cacactgcat gcagcaggag cctcttgttt 3240
ttcttaatga gctgaaaaga cagcagatgt tcacagctga tgcctgggtg tgactcagcg 3300
ccacgggaag ctctgtgccc gcaggtaagc acgcacagtc ttacagttct ccttgtaaaa 3360
tatcatcacc cttcctgcct gagaaacgag tacatttgta ttttatgtaa caacaatagt 3420
caaggcagca ttgcaacact gagcaggggt aggtgggggt gctgagcaca ggacaagagg 3480
gaggaggcct gccctccatt cagatgcac tgcacgccc ttctgtgtgc agtcacatcg 3540
agactgcaca cagcatgcat ctcctcttgg aaaatatctt ttgcctccga gttgttttaa 3600
gcaattagaa tcaggctctg aatccccaga ctgttcagag acttcaaggg acacctccct 3660
cacaagaagc ctggcacccc cactgtgtac ctttgagagg aaaggagtgc gtttgttttc 3720
atctgcattc tgtttgtcag tggcaacaga ctctatcaat gtaaaacat ggttgtgatc 3780
atgtggggaa atcaataaaa tcctttgaaa ctctcgga a 3821

```

<210> 26

<211> 1594

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233896.7

<220>

<221> unsure

<222> 1569, 1580

<223> a, t, c, g, or other

<400> 26

```

gacgtcactt ccgcccgggc ccggccgagg ttccggggctc cgttggccga ggggggcgta 60
cggagggtggc agctgtggga ggaggcggcg tgggaaggccg aggagctcaa gcccggaaca 120
atccccacgt tccgggccgc gaccctgacc ctgcagcgta ccgggaagcg aaaccggccg 180
gatggggccgc tgagcccgaa tcgggcactg tgtggagccc cctggagctg agatcaggat 240

```

PA-0024 US

```
gttccgcttc atgagggacg tggagcctga ggatcccatg ttcttgatgg atcccccttgc 300
tattcaccgt cagcatatga gccgtatggt gtcagggtggc tttggatata gccccttcct 360
cagcatcaca gatggcaaca tgccagggac caggcctgcc agccgccgga tgcagcaggc 420
tggagctgtc tccccctttg ggatgctggg aatgtcgggt ggtttcatgg acatgttttg 480
gatgatgaat gacatgattg gaaacatgga acacatgaca gctggaggca attgccagac 540
cttctcatct tccactgtca tctcctactc caatacgggt gatggtgccc ccaaggctca 600
ccaagagaca tcagagatgc gctcggcacc aggcgggata cgggagacac ggaggactgt 660
tcgggattca gacagtggac tggagcagat gtccattggg catcacatcc gggacagggc 720
tcacatcttc cagcgtctcc gaaaccatcg cacggggggac caggaggagc ggcaggacta 780
tatcaacctg gatgagagtg aggcgcgagc gtttgatgac gagtggcggc gggagacctc 840
ccgattccgg gcagcagcgt cccctggagt ttccggcggt tgagtcctca ggggctgggg 900
gacgaagggc ggaggggcct ccccgcttgg acatccaggg acctgaggac tccccttccc 960
gacagtcccg ccgctatgac tggtgagggc cccggggcct cagcctctct tgtacaggct 1020
gagaggctga gaaatcatcc cctgaataac tttttcctcc cgattcccat cccaatttta 1080
atattaaatt aacaggcaag ccggccccca cctctccctg ggggtctcag ggagaacctt 1140
tcacggcacc ctttccctac cttttccttc tttaatctcc tggtttacca ttgatgactt 1200
cgctctgca tctactgact tgatttttca ttctgccact ccatcttcaa accccctcac 1260
ctttcccatc ctactcctgc catgcattga agggtcfaat cattttgggg tgagctctgg 1320
gttttagggc cccctccatc cctcagctac cctggatctt tgcccacctc ttcctcagag 1380
ccccactga ggggccgtag ccctatctag ggctgtggaa ggagcagact ggttcctaac 1440
tctctccctc ctctgcccac cacacatcaa aagaatcttc cctacaccct tctctgcctt 1500
tattttttga tttgtgcaac ttgtaactag gtgtttatgg aataaaggag aatggaaaaa 1560
agaccaaaana aaaaaaaaaa aaaaaagggt cggc 1594
```

<210> 27

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 197192.31

<220>

<221> unsure

<222> 34, 44, 53, 62, 65, 72, 85, 105, 132, 147

<223> a, t, c, g, or other

<400> 27

```
atttctggct gccaggaag ccatggcgct cccntgggtg aatnctggtc cancgtgaca 60
tncgnccctc anttttaagc catgnctaga tgtggctgct gaggntcagt gtgattatct 120
tggcagagcc cnggccagta ttacttnaaa cccatgatga aggagttccg gtttgagcca 180
tctcacaga tgatcgaggt gcaggaaggc cagaacctga agatcactct gctgaacaga 240
atttattttc tgagtcaaat ataatttatt attatttttg tcaaagaagt atttaagctg 300
tgctgtgggtg tgagaatgtc attcttgatc ttcagccttc gtttgcaaga agagttccag 360
ttgacgtggt gtttggttcc atggcggggt accctaggga ttcattctgt ttcttcaact 420
ccctttgcat ctgagatcct gctggaaacc acagcaacct gtatccacta ttaggaggta 480
aaaatcaata aaatggccca ttcatttgtg ttgtagctc 519
```

<210> 28

<211> 2730

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 197402.2

<400> 28

```
ctctgtagct gtgaccctga taccgcgtgg tgtgctccga acacatgggt cccagaacga 60
aggcggcgct cagaagccct aggtcccaga ggtccgctca gcggcaggcg cataaggcgg 120
```

```

ggcggcgcg ggccttttcc tccatcgga cegtttctccc ggggctgagt ccctgcccgg 180
actccgaacg ccgaagacca ggggcccggaa gcgcgcgcgc ccactgccgc gccgtgtcag 240
tcgggaggga gggagcgagc aggcgaagcc ggggaggacg ggggtgaagat ggcgcccttc 300
tccgagatgg gtgtaatgcc tgagattgca caagctgtgg aagagatgga ttggctcctc 360
ccaactgata tccaggctga atctatccca ttgatcttag gaggagggtga tgtacttatg 420
gctgcagaaa caggaagtgg caaaactggg gcttttagta ttccagttat ccagatagtt 480
tatgaaactc tgaaagacca acaggaaggc aaaaaaggaa aaacaacaat taaaactggg 540
gcttcagtgc tgaacaaatg gcagatgaac ccatatgaca gaggatctgc ttttgcaatt 600
gggtcagatg gtctttgttg tcaaagcaga gaagtaaagg aatggcatgg gtgtagagct 660
actaaaggat taatgaaagg gaaacactac tatgaagtat cctgtcatga ccaagggtta 720
tgcagggtcg ggtggtctac catgcaggcc tctttggacc taggtactga caagtttgga 780
tttggtcttg gtggaacagg aaagaaatcc catacaaac aatttgataa ttatggagag 840
gaattcacta tgcattgata cattggatgt taccctggata tagataaggg acatgtcaag 900
ttctccaaaa atggaaaaga tcttggtctg gcatttgaaa taccaccaca tatgaaaaac 960
caagccctct ttctgcctg tgttttgaag aatgctgaac tgaaatttaa cttcgggtgaa 1020
gaggaattta agtttccacc aaaagatggc tttgttgctc tttccaaggc accgatgggt 1080
tacattgtca aatcacagca ctcaggtaat gcacagggtg cacaaacaaa gtttctcccc 1140
aatgctccga aagctctcat tgttgaacct tccgggaggt tagctgaaca aactttgaac 1200
aacatcaagg agtttaagaa atacattgat aatctaaat taaggagct tctgataatt 1260
ggagggtgtg cagcccgga tcagctctct gttttggaaa atggagtaga tatagttgta 1320
ggtactccgg gaagactaga tgacttggtg tcaactggaa agctgaactt atctcaagtt 1380
agattcctgg tcttgatga agctgatggg cttctttctc aaggttattc tgattttata 1440
aataggatgc acaatcagat tcctcagggt acctctgatg gaaaaagact tcagggtgatt 1500
gtttgctctg ccactttgca ttctttcgat gtaagaacac tgtccgagaa gataatgcat 1560
tttctacat gggttgactt aaaaggagaa gactctgttc cagatactgt acaccatggt 1620
gttgtcccag taaatcccaa aactgacaga ctctgggaaa ggcttggaag gagccacatt 1680
agaactgatg atgtacatgc aaaagataac acaagacctg gtgctaatag tccagagatg 1740
tggtctgaag ctattaaaat cctgaaaggg gagtatgctg tccgggcaat caaggaacat 1800
aagatggatc aagcaattat cttctgtaga accaaaattg actgtgataa cttggagcag 1860
tactttatac aacaaggagg aggacctgat aaaaaaggac accagttctc atgtgtttgt 1920
cttcatgggtg acagaaagcc tcatgagaga aagcaaaact tggaaagatt taagaaagga 1980
gatgtaagat tcttgatttg cacagatgta gctgctagag gaattgatat ccacggtgtt 2040
ccttatgtta taaatgtcac tctgccgat gaaaagcaaa actacgtaca tcgaattggc 2100
agagtaggaa gagctgaaag gatgggtctg gcaatttccc tgggtggcaac agaaaaagaa 2160
aaggtttggt accatgtatg tagcagccgt ggaaaagggt gttataacac aagactcaag 2220
gaagatggag gctgtaccat atggtacaac gagatgcagt tactatctga gatagaagaa 2280
cacctgaact gtaccatttc tcaggttgag cgggatataa aggtaccagt ggatgaattt 2340
gatgggaaag ttacctacgg tcagaaaagg gctgctggtg gtggaagcta taaaggccat 2400
gtggatattt tggcacctac tgttcaagag ttggctgccc ttgaaaagga ggcgagaca 2460
tctttcctgc atcttggtta ccttcctaac cagctgttca gaacctctg atttttacat 2520
ttactgaata agatttgagt aatgaaagtc tgtagtctta aaactctaaa acagttgtac 2580
tgctccaag cagcagtatt tatagtaacg taagctatta atgctaactc ttgcatgtca 2640
agaaacatta gtcttaggaa ttcttcaaaa aatggcatcc caatgaaat aaatttgatg 2700
actataaaca aaagcaccaa cccagggga 2730

```

<210> 29

<211> 3316

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 422524.4

<400> 29

```

ggcgtgccc cccgcccggg ccatggcgaa gaagagcgcc gagaacggca tctatagcgt 60
gtccggcgac gagaagaagg gtcctctcat cgtgtccggg cccgatgggtg ccccgccaa 120
gggcgatggc cctgcggggc tgggggcgcc cagcagccgc ctggccgtgc cgcgcgcga 180
gacctggacg cgccagatgg acttcatcat gtcgtgcgtg ggcttcgccg tgggcttggg 240
caacgtgtgg cgcttcccc acctgtgcta caagaacggc ggagggtgtg tccttatttc 300
ctacgtcctg atcgccctgg ttggaggaat ccccattttc ttcttagaga tctcgtggg 360

```

```

ccagttcatg aaggccggca gcatcaatgt ctggaacatc tgtccctgt tcaaaggcct 420
gggctacgcc tccatgggtga tcgtcttcta ctgcaacacc tactacatca tgggtgctggc 480
ctggggcttc tattacctgg tcaagtcctt taccaccacg ctgccctggg ccacatgtgg 540
ccacacctgg aacctccccg actgctggga gatcttccgc catgaagact gtgccaatgc 600
cagcctggcc aacctcacct gtgaccagct tgctgaccgc cggccccctg tcatcgagtt 660
ctgggagaac aaagtcttga ggctgtctgg gggactggag gtgccagggg cctcaactg 720
ggaggtgacc ctttgtctgc tggcctgctg ggtgctggtc tacttctgtg tctggaagg 780
ggtcaaatcc acgggaaaga tcgtgtactt cactgctaca tccccctacg tggctctgg 840
cgtgctgctg gtgctgggag tgctgctgcc tggcgccctg gatggcatca tttactatct 900
caagcctgac tgggtcaaagc tgggggtccc tcaggtgtgg atagatgcgg ggaccagat 960
tttcttttct tacgccattg gcctgggggc cctcacagcc ctgggcagct acaaccgctt 1020
caacaacaac tgtacaagg acgccatcat cctggctctc atcaacagtg ggaccagctt 1080
ctttgtctggc ttcgtggtct tctccatcct gggcttcatg gctgcagagc agggcgtgca 1140
catctccaag gtggcagagt cagggccggg cctggccttc atcgccctacc cgggggctgt 1200
cacgctgatg ccagtggccc cactctgggc tggcctgttc ttcttcatgc tgttgcctgt 1260
tgggtctcgac agccagtttg taggtgtgga gggcttcatc accggcctcc tgcacctcct 1320
cccggcctcc tactacttcc gtttccaaag ggagatctct gtggccctct gttgtgcctt 1380
ctgctttgtc atcgatctct ccatggtgac tgatggcggg atgtacgtct tccagctgtt 1440
tgactactac tcggccagcg gcaccacct gctctggcag gccttttggg agtgcgtggt 1500
ggtggcctgg gtgtacggag ctgaccgctt catggacgac attgcctgtg tgatcgggta 1560
ccgaccttgc cctgggatga aatggtgctg gtccttcttc acccgctgg tctgcctggg 1620
catcttcatc ttcaacgttg tgtactacga gccgctgggc tacaacaaca cctacgtgta 1680
cccgtgggtg ggtgaggcca tgggctgggc ctctgccctg tctccatgc tgtgcctgcc 1740
gctgcacctc ctgggctgcc tctcagggc caagggcacc atggctgagc gctggcagca 1800
cctgacctag cccatctggg gcctccacca cttggagtag cgagctcagg acgcagatgt 1860
caggggcctg accacctga cccagtgctc cgagagcagc aaggtcgtcg tgggtggagag 1920
tgtcatgtga caactcagct cacatcacca gctcacctct ggtagccata gcagcccctg 1980
cttcagcccc accgcacccc tccagggggc ctgcctttcc ctgacacttt tgggggtctgc 2040
ctgggggagg aggggagaaa gcaccatgag tgcactacta aacaactttt tccattttta 2100
ataaaacgcc aaaaatatca caaccacca aaaatatag cctctcccc cccagccta 2160
gccgagctgg tcttagggcc cgctagtgc cccaccccc cccacagtgc tgcacctc 2220
ctgccccctg cacgcccacc cctgcccac ctctccaggc tctgctctgc agcacaccg 2280
tgggtgacct ctcaccccag aagcagcagt ggcagcttgg gaaatgtgag gaagggagag 2340
agggagagac gggagggagg agagagagga gaagggaggc aggggagggg cagcagaacc 2400
aaggcaataa tttcagctgg gctatacccc tctccccatc cctgttatag aagcttagag 2460
agccagccag caatggaacc ttctggttcc tgcgccaatc gccaccagta tcaattgtgt 2520
gagcttgggt ccgagtgcac gcgtgcgtga gtacggagag tatatataga tctctatctc 2580
ttagcaagg tgaatgccag atgtaaatgg cgctctggg caaaggaggc ttgtattttg 2640
cacattttat aaaaacttga gagaatgaga tttctgcttg tatatttcta aaaagaggaa 2700
ggagcccaaa ccatcctctc cttaccactc ccatccctgt gagccctacc ttaccctctc 2760
gccccctagc aaggagtgtg aatttataga tctaactttc ataggcaaaa caaaagcttc 2820
gagctgttgc gtgtgtgagt ctgttgtgtg gatgtgcgtg tgtggtcccc agccccagac 2880
tggattggaa aagtgcattg tgggggcctc ggggtgtgcc ccacgtgtc cctttgccac 2940
aagtctgtgg ggcaagaggc tgcaatatc cgctctgggt gtctgggctg ctaacctggc 3000
ctgctcaggc tccccacct gtgcggggca ccccccagg aagggacct ggacacggct 3060
cccacgtcca ggcttaaggt ggatgcactt cccgcacctc cagtcttctg tgtagcagct 3120
ttaaccacg tttgtctgtc acgtccagtc ccgagacggc tgagtgacct caagaaaggc 3180
ttccccgaca cccagacaga ggctgcaggg ctggggctgg gtgaggggtg cgggcctgcg 3240
gggacattct actgtgctaa aaagccactg cagacatagc aataaaaaca tgtcattttc 3300
caaagcaaaa aaaaaa 3316

```

<210> 30

<211> 2097

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350423.5

<400> 30

```

ggggcgtcgc cgtactaggc ctgccccctg tccggccagc ccctcgaagc acctactcca 60
cagggtccagc cggcccggtga gcgcctgggg accgcagagg tgagagtcgc gcccggggag 120
tccgccgcct gcgccaggat ggagttcgtg aaatgccttg ggccaccccg aagagttcta 180
caacctggtg cgcttccgga tcggggggcaa gcggaagggtg atgcccaaga tggaccagga 240
ctcgctcagc agcagcctga aaacttgcta caagtatctc aatcagacca gtcgcagttt 300
cgcagctggt atccaggcgc tggatgggga aatgcgcaac gcagtgtggc atattttatc 360
tggttctccg agctctggac acactggaag atgacatgac catcagtgtg gaaaagaagg 420
tcccgcgtgt acacaacttt cactctttcc tttaaccaac agactggcgg ttcattggaga 480
gcaaggagaa ggatcgccag gtgctggagg acttcccaac gatctccctt gagtttagaa 540
atctggctga gaaataccaa acagtgattg ccgacatttg ccggagaatg ggcattggga 600
tggcagagtt tttggataag catgtgacct ctgaacagga gtgggacaag tactgccact 660
atgttgctgg gctggtcgga attggccttt ccogtctttt ctcagcctca gagtttgaag 720
accccttagt tggtagaat acagaacgtg ccaactctat gggcctgttt ctgcagaaaa 780
caaacatcat ccgtgactat ctggaagacc agcaaggagg aagagagttc tggcctcaag 840
aggtttgagg caggtagtt aagaagttag gggattttgc taagccggag aatattgact 900
tggccgtgca gtgcctgaat gaacttataa ccaatgcact gcaccacatc ccagatgtca 960
tcacctacct ttcgagactc agaaaccaga gtgtgtttta cttctgtgct attccacagg 1020
tgatggccat tgccactttg gctgcctggt ataataacca gcagggtgtc aaaggggcag 1080
tgaagattcg gaaagggcaa gcagtgacct tcatgatgga tgccaccaat atgccagctg 1140
tcaaagccat catatatcag tatatggaag agatttatca tagaatcccc gactcagacc 1200
catcttctag caaaacaagg cagatcatct ccaccatccg gacgcagaat cttcccaact 1260
gtcagctgat tccccgaagc cactactccc ccactctacct gtggtttgtc atgcttttgg 1320
ctgccctgag ctggcagtac ctgaccactc tctcccaggt aacagaagac tatgttcaga 1380
ctggagaaca ctgatcccaa attgtccat agctgaagtc caccataaag tggatttact 1440
ttttttcttt aaggatggat gttgtgttct ctttattttt ttactactac tttaatccct 1500
aaaagaacgc tgtgtggctg ggacctttag gaaagtgaat tgcagggtgag aagaacctaa 1560
acatgaaagg aaagggtgcc tcatcccagc aacctgtcct tgtgggtgat gatcactgtg 1620
ctgcttgtgg ctcatggcag agcattcagt gccacgggtt aggtgaagtc gctgcatatg 1680
tgactgtcat gagatcctac ttagtatgat cctggctaga atgataatta aaagtattta 1740
atttgaagca ccatttgaat gttcgtaata gttagaaaat atgtgaattt tctttctggt 1800
cggtccttat ttttctcatt attttgtttt ctttaattgg gttgaatgga gtatagataa 1860
atatttatgg ttttagttaac agtttagatg ttcctaagaa tgcaaactgc cttttccaca 1920
caaaggctgg gaataaaatt ctgggtattc tcgtattctc atttaaagga gtttagcttt 1980
cagagagaaa cagcaggatt gcttttgacc ttttagaaga ttggtctcca gtaaagggtg 2040
acatttttga gatttttata ataaagaatt taattgctct gcattttgtc agtaaaa 2097

```

```

<210> 31
<211> 4453
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 095888.2

```

```

<220>
<221> unsure
<222> 482, 502, 3907-4004
<223> a, t, c, g, or other

```

```

<400> 31
gtttgcctga actgttttga cctctgggcc atattgcaga accctgcctt tctttgttga 60
ctgaggaaaag ctgcgtccct gccaggtttt ttcattgttg atcgaaatta acaccaggtg 120
gtgaatagag ccctccttaa ggttgctcag gataaatcat ttattaaata ggtctgctta 180
tcaggagggg cgtgaaggct cccaaaagga aatgctggca cctgggccca gaagccaggg 240
cctctaactc ctgggggttga tttcttcagt gaagttgcac cctacaaagg gaatatggcc 300
aaagcggcac tcaactgaag gctgatatac ggcgattaga cagccatgca ttctgcgttt 360
gtctggaatg gattgttagag agatggactt atatgaggac taccagtccc cgtttgattt 420
tgatgcagga gtgaacaaaa gctatctcta cttgtctcct agtggaaatt catctccacc 480
cnggatcacc tactcttcag anatttggtc tgctgagaac agaccagtc cctgaggaag 540
gagaagatgt tgctgccacg atcagtgcga cagagaccct ctcggaagag gagcaggaag 600

```

```

agctaagaag agaacttgca aaggtagaag aagaaatcca gactctgtct caagtgttag 660
cagcaaaaaga gaagcatcta gcagagatca agcggaaact tggaatcaat tctctacagg 720
aactaaaaca gaacattgcc aaaggggtggc aagacgtgac agcaacatct gcttacaaga 780
agacatctga aaccttatcc caggctggac agaaggcctc agctgctttt tcgtctgttg 840
gctcagtcac caccaaaaag ctggaagatg taaatatacg ttccattcag cattcaatta 900
gcatgcctgc tatgagaaac tccccaactt ttaaatacatt tgaagaaaag gtcgaaaact 960
taaagtctaa agtaggggga accaagcctg ctgggtgggtga ttttgagaa gtcttgaatt 1020
cggtgcaaa tgctagtgcc accaccacgg agcctcttcc agaaaagaca caggagagcc 1080
tgtgagattc ctacctttgt tctgtaccc actgccagat gctgcaagcg aggtccaagc 1140
acatcttgtc aacatgcatt gccatgaatt tctaccagat gtgcttttat ttagctttac 1200
atattccttt gaccaaatag tttgtgggtt aaacaaaatg aaaatatctt cacctctatt 1260
cttgggaaac accctttagt gtacatttat gttcctttat ttaggaaaca ccattataaa 1320
aacacttata gtaaattggg acattcacta taatgatcta agaagctaca gattgtcata 1380
gttggttttcc tgctttacaa aattgctcca gatctggaat gccagtttga cctttgtctt 1440
ctataaatatt tccttttttt cccctctttg aatctctgta tatttgattc ttaactaaaa 1500
ttgttctctt aaatattctg aatcctggta attaaaagtt tgggtgtatt ttctttacct 1560
ccaaggaaaag aactactagc tacaaaaaat attttggaaat aagcattgtt ttggtataag 1620
gtacatatatt tgggtgaaga caccagactg aagtaaacag ctgtgcatcc aattttattt 1680
agttttgtaa gtaacaatat gtaatcaaac ttctaggtga cttgagagtg gaacctccta 1740
tatcattatt tagcacctgt tgtgacagta accatttcag tgtattgttt attataccac 1800
ttatatcaac ttatttttca ccaggttaaa attttaattt ctacaaaata acattctgaa 1860
tcaagcacac tgtatgttca gtaggttgaa ctatgaacac tgtcatcaat gttcagttca 1920
aaagcctgaa agtttagatc tagaagctgg taaaaatgac aatatcaatc acattagggg 1980
aaccattggt gtcttcactt aatccattta gcactattta aaataagcac accaagttat 2040
atgactaata taacttgaaa attttttata ctgaggggtt ggtgataact cttgaggatg 2100
taatgcatta ataaaaatca actcatcatt ttctacttgt tttcaatgtg ttggaaactg 2160
taaaatgata ctgtagaacc tgtctcttac tttgaaaact gaatgtcagg gctgagttaa 2220
tcaaagtgtc tagacatatt tgcatagagg ccaagggtatt ctattctaatt aactgcttac 2280
tcaacactac caccttttcc ttatactgta tatgattatg gcctacaatg ttgtatttgt 2340
tatttattaa attgtgattg ttttattatt gtttatgcca aatgttaact gccaaagctt 2400
gagtgacctt aagcattttt taaaagcatg cttagattta cttcagtata aattatctta 2460
tgaaaaccaa attttaaaag ccacaggtgt tgattgttat aaaataacat gctgccattc 2520
ttgattgcta gagtttttgt tagtactttg gatgcaatta aaactatgtg ctatcacatg 2580
tgaaaagctt aataaattcc atctatcagt agtataggtc tcaatattta ttatgagacc 2640
agtgggtctg aaacagcttg ttgtaccgaa tcaactggag tctatgctta aaaaaaaaaa 2700
attttttttt aaccatcctt aaattattgc ttaatgggat catattaaca tattctaaat 2760
aagggcttta aggcacaggc tgttgaagca tttctcaga ggagtggtatc tgttagagtc 2820
tgtctttcta tagaaatatt gtgcttactc aagtgttaaa ttattttttc tatgaactag 2880
tctacttctt aaaattcaaa catattcttt tgatcacatt gtttcttgag catcctgccc 2940
tgctactaac ttttcaacaa ggcaaaatgg agtaaagtgg caatttcttt agatgagtga 3000
aataccctca agtctctttt ctgccccaaa agggaaaagt gatagaaatg ggggtggcaa 3060
gtggggtgag tggatgaagg tgggtatttg ggggtgctgt gaaagaaaat aatggagaat 3120
cacttttcta tactctacc tatacttaaa caagaataca aagtaatcta ctgtaagta 3180
ctctgcccc tgaagaagt attaaaaaga gtgaggatgg atttagaaaa aaacatgaat 3240
ttagaaatat tcaaaatggt ttttgtggca gattcaatat tatgaattca cagatattta 3300
aagaatgaga aacatagtaa ttagtagaaa tgccagaaac agttcctggg tcctcttggt 3360
tttgacacta agaaaatagc aagagtgtga aatctcagat acttatgaaa tctcacagat 3420
gtaaggactc aagtgtagaa gaaaatatcc cctctctaca aaaagaaatg tcaatttatg 3480
gagtttgtgg gaaatagggc aagaattctt atgcttatga gagccaagta gtcagtggaa 3540
gagagtagag ctcaaaactg gattatcacc ttagcaactt agatcatgca agaatagttt gaaatagaaa 3600
aaaagtattt aatttggatc tggatctggt aagatatgca cagtctattt tttgtatagt 3660
attggaaaat aaaaatgcta taatttgggt atgggttctt ttgtatacat tacctgccc 3720
ttgaggaaa gggcaagtcc attatgcaac ttctctccaa acccttcata ttctggatat 3780
gatacttaaa gagccatgag ctgcctatca gaaggcattt attaaatgac 3840
tgcttgctga agatttctc aaagagatcc tacatttagg tcatttgtca gaatgatgtt 3900
tgtgtttnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttttat ttatagctct 4020
taaagcccag atgaagaaat cacatttttg cccatagtga agaaacattt ggccattgat 4080
tagtccctat tttcagtgc tgctctgttt tcattagatt agagagaccc tgtgtgggcc 4140
acagttaata taaaccatta tcacttttaa gtaaacctgc acatcttaga tttcataatt 4200
tccttttgtt tctgactcaa aatgaactaa gagcttttca ctttttgttt gtaagttctc 4260

```

PA-0024 US

```
agagagtcgg gtctgcaagt gcttttgcct gccaggattt tgtactcaaa taaatgctat 4320
ttggcaacta aaattcttgc cagctctcat gtaattttga tgttactgag gttggttggg 4380
agtttatttt attaattttg tggttcttct atcatataga aaaagccaaa tacagttttg 4440
tttgaatatt tgt                                     4453
```

<210> 32

<211> 11917

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 475473.1

<220>

<221> unsure

<222> 9384, 10290-10321, 10325

<223> a, t, c, g, or other

<400> 32

```
gccgcgcact ctccgcggcg ctgggagagg gccggaggggg aggcggcgcg cggcgccaga 60
ggagggggga cgcagggggc ggagcggaga cagtaccttc ggagataatc ctttctcctg 120
ccgcagagga gaggagcggc cggagcggaga cacttcgccg aggcacagca gccggcagga 180
tggcgaccgt ggtggtggaa gccaccgagc cggagccgtc cggcagcatc gccaaaccgg 240
cggcgctccac ctgcgcctagc ctgtcgcacc gcttccttga cagcaagttc tacttgctgg 300
tggtcgtcgg cgagatcgtg accgaggagc acctgcggcg tgccatcggc aacatcgagc 360
tcggaatccg atcatgggac acaaacctga ttgaatgcaa cttggaccaa gaactcaaac 420
tttttgatc tcgacactct gcaagattct ctctgaagt cccaggacaa aagatccttc 480
atcacccaag tgacgtttta gaaacagtgg tcctgatcaa cccttctgat gaagcagtca 540
gcaccgaggt gcgcttaatg atcactgatg ctgcccga caagctgctc gtgctgaccg 600
ggcagtgcct tgaaaatacc ggagagctca ttctccagtc cggctcttcc tcttccaga 660
acttcataga gattttccacc gatcaagaga tcggggagtt actaagcacc acccatcctg 720
ccaacaaagc cagcttaacc ctgttctgtc ctgaagaagg ggactggaag aactccaatc 780
ttgacagaca caatctccaa gacttcatca atattaaact caattcagct tctatcttgc 840
cagaaatgga aggactttct gagtttaccc agtatctctc agaatcagtg gaagtcccat 900
ctccctttga catcttgaa cctcccacat cgggtggatt tctgaagctc tccaagccct 960
gctgttatat ttttccagga gggagggcg attctgcctt gtttgcaagt aatggtttca 1020
atatgtcat caatggcggg tcagagagaa aatcctgctt ctggaagctc atccgacact 1080
tagaccgagt ggactccatc ctgtccacc acattgggga tgacaatttg cctggaataa 1140
acagcatgtt acagcggaaa attgcagagc tcgaggaaga acagtcccag gggctccacc 1200
acaaatagtg actggatgaa aaacctcatc tcccctgact taggagttgt atttctcaat 1260
gtacctgaaa atctcaaaaa tccagagcca aacatcaaga tgaagagaag catagaagaa 1320
gctgccttca ctctccagta cctaacaata ttgtccatga aaccagaacc tctgtttaga 1380
agtgtaggca atactattga tcctgtcatt cttttccaaa aaatgggagt aggtaaactt 1440
gagatgtatg tgcttaatcc agtcaagagc agcaaggaaa tgcagtattt tatgcagcag 1500
tggactggta ccaacaaaga caaggctgaa ttcattctgc ctaatggtca agaagtagat 1560
ctcccgatct cctacttaac ttcagttctc tctttgattg tgtggcatcc agcaaaccct 1620
gccggagaaaa tcatccgagt cctgtttcct gggaaacagca cccagtacaa catcctggaa 1680
gggttggaag agtcaaaaca tctagacttt ctgaagcagc cactggccac caaaaggat 1740
ctcactggcc aggtgcccac tcctgtggtg aaacaaacaa aactgaaaca gagggctgat 1800
agccgagaaa gtctgaagcc agccgcaaaa ccacttccca gcaaatccgt gcgcaaggag 1860
tcaaaagaag aaaccctga ggtcacaata gtgaatcacg tggaaaagcc acccaaagtt 1920
gaaagcaaaag aaaaggtaat ggtgaaaaaa gacaagccag taaaaacaga gaccaaacct 1980
tcagtgactg aaaaggaggt tcccagcaaa gaagagccat ctccagtgaag agccgaggtg 2040
gctgagaagc aagccacaga tgtcaaaccc aaagctgcca aggagaagac ggtgaaaaag 2100
gaaacaaaag taaaagcctga agacaagaaa aaaagccaaa gaaagaagtg 2160
gctaaaaagg aggacaaaac acctatcaag aaggaggaaa aaccaaataa ggaagaggtg 2220
aaaaaagaag tcaaaaaaga gatcaagaaa gaagagaaaa aagaaccaa gaaagaggtt 2280
aagaaagaaa caccgcaaaa ggaagtcaag aaggaggtta agaaggaaga gaagaaggaa 2340
gtgaaaaagg aagaaaagga acccaaaaaa gaaattaaga agctccctaa agacgcaaa 2400
aatcatctca ctctctgtc tgaagcaaaa aaaccagctg ctttaaaacc aaaagtacc 2460
```

aagaaggaag	agtctgtcaa	gaaagattct	gttgctgccg	gaaagccaaa	ggagaagggg	2520
aaaataaaaag	tcattaagaa	ggaaggcaag	gccgcagagg	ctgtcgtctgc	agctgtcggc	2580
actggagcca	ccacagcagc	tgatcatggcg	gcagctggaa	tagcagccat	tggccctgcc	2640
aaagaactcg	aagctgagag	gtcccttatg	tcatctcctg	aggatctaac	caaggacttt	2700
gaagagttaa	aggctgaaga	ggtcgatgta	acaaaggaca	tcaagcctca	gctggagcta	2760
atcgaagacg	aagagaaaact	gaaggaaaact	gagccagtcg	aagcctacgt	catccagaag	2820
gagagagaag	tcaccaaagg	tctgccgag	ccccctgatg	agggaatcac	taccactgaa	2880
ggggaggggcg	aatgtgaaca	gacacctgag	gagctggagc	ccgtcgagaa	gcagggagta	2940
gacgacattg	aaaaatttga	agatgaagga	gccggttttg	aagaatcttc	agagactgga	3000
gactatgaag	agaaggcaga	aactgaggag	gctgaggagc	cagaagagga	tggggaggaa	3060
cacgtatgtg	tgagcgctc	caagcacagc	cccactgagg	atgaggaaaag	tgccaaggcg	3120
gagctgatg	catcacatcag	ggagaagagg	gagctgtgtg	ccagtgggga	tgaccgagcc	3180
gaagaagata	tggatgaggc	cattgagaaa	ggagaggctg	aacaatctga	agaggagcct	3240
gatgaggagg	acaaagctga	agatgccaga	gaggaggaat	atgagccgga	aaaaatggaa	3300
gctgaagact	atgtgatggc	tgtggctgcac	aaggctgcag	aggctgggtg	tgccgaggag	3360
cagtatggat	tctcaccac	accaaccaag	caactaggag	cccagtctcc	tggccgagaa	3420
cctgcactct	caattcatga	tgagacttta	cctggaggct	cagagagcga	ggccaccgct	3480
tctgatgagg	agaatcgaga	agaccagcct	gaggaattca	ctgccacctc	tggctacact	3540
cagctactata	ttgagatata	cagttagccc	acccccatgg	atgagatgtc	taccctcgga	3600
gacgtgatga	gtgatgagac	caacaatgaa	gagacggagt	ccccttctca	ggaattcgta	3660
aatatcacca	aatatgaatc	ttcattgtat	tctcaggaat	actctaaacc	tgctgatgtt	3720
acaccgctca	acggattttc	tgaaggatca	aaaacagatg	ccactgatgg	caaggattac	3780
aatgcttcag	cctctaccat	atcaccaccc	tcttccatgg	aggaagacaa	attcagcaga	3840
tctgctttac	gtgatgctta	ctgctctgaa	gtgaaagcca	gcaccacttt	ggacatcaaa	3900
gatagcatct	cagtgttttc	aagtgaagaa	gtcagcccat	cgaagagccc	gtccctgagt	3960
ccatctccac	catcaccctt	agaaaagacc	ccccctgggtg	aacgtagtgt	gaacttctct	4020
ctgacgcccc	atgagattaa	agtctctgca	gaggcagaag	tagccccggt	gtctcctgag	4080
gtgacccaag	aagttagttga	agaacattgt	gctagtccctg	aggacaagac	tctggaagtg	4140
gtgtcaccat	ctcagtcctg	gactggcagt	gctggtcaca	caccttacta	tcaatctcct	4200
actgacgaga	aatccagtc	tctccctaca	gaagtcatgt	aaaaaccacc	agcagttcca	4260
gtgagttttg	aattcagtg	tgccaaagat	gagaatgaaa	gggcttcagt	aagccccatg	4320
gatgagcccg	tgcttgactc	agagtctcct	attgaaaaag	ttttgtctcc	tttacgcagc	4380
ccgccccctca	ttggatccga	gtctgcttat	gaaagttttc	taagtgtctga	tgacaaggct	4440
tctggcagag	gtgccgaaaag	tctttttgaa	gaaaagagtg	gaaaacaagg	ctctccagac	4500
caagtaagtc	cagttttctga	aatgactttct	actagtcttt	accaagacaa	acaggaaggg	4560
aaaagcacag	actttgcacc	aataaaaagaa	gactttggcc	aagaaaagaa	aactgatgat	4620
gttgaagcca	tgagttctca	accagcactg	gctctggatg	aaaggaaatt	aggagatgtt	4680
tctcccacac	aaatagatgt	cagtcagttt	ggatctttta	aagaagacac	taagatgtcc	4740
atttctgaag	gtactgtctc	agacaagtca	gctactcctg	ttgatgaggg	cgtagcagaa	4800
gacacgtact	ctcatatgga	gggtgtggcc	tcagtgtcca	cagcctcagt	ggctacgagc	4860
tcattttccag	agccaacaac	agatgatgtg	tctccatctc	tgcagtctga	ggttggtccc	4920
ccacattcca	cagaagtaga	tgactccctt	tcagtgtctg	ttgtgcaaac	acctaccaca	4980
ttccaggaaa	cagaaagtgc	tccatctaaa	gaagaatgcc	caagaccgat	gtcaatttct	5040
ccaccagatt	tctcccttaa	aactgcaaag	tccaggacac	ccgttcaaga	tcacagatct	5100
gaacagtcct	caatgtctat	tgaatttggc	caagaatctc	ctgagcaatc	ccttgctatg	5160
gacttcagtc	gacagtctcc	agatcaccct	acagtgggtg	caggcgtgct	tcacatcact	5220
gaaaatgggc	caactgaagt	ggactacagt	ccttctgaca	tgcaggactc	cagtttatca	5280
cataagatac	cacctatgga	ggagccgtcc	tacacccaag	ataatgatct	ttctgagctc	5340
atctcagtat	ctcaggtaga	ggcctccccg	tccacctctt	ctgctcatac	cccttctcag	5400
atcgcttctc	ctctccaaga	agatactcta	tccgatgttg	ctcctcccag	agatatgtcc	5460
ttatatgcct	cactcacctc	tgaaaaagtg	caaagtctgg	aaggagagaa	gctctctcca	5520
aaatctgata	tctctccact	cacccacaga	gagtcctctc	ctttatatcc	acctactttt	5580
tcagattcta	cctctgcagt	caaagagaaa	acagcaactt	gccacagttc	ctcttctcca	5640
ccaatagatg	cagcatccgc	agagccctat	ggcttccgtg	cctcagtgtt	attcgatata	5700
atgcaacacc	atctagcctt	gaatagagat	ttgtccacac	ctggcctgga	gaaggacagt	5760
ggagggaaga	cacctgggtga	ctttagctat	gcctatcaaa	agcctgagga	aacaaccagg	5820
tccccagatg	aagaagatta	tgactatgag	tcttatgaga	agaccacccg	gacctcagat	5880
gtgggtggct	attactatga	gaagatagag	agaaccacaa	aatctccaag	tgacagtggc	5940
tactcctatg	agaccattgg	gaaaactacc	aagacccctg	aagatgggtga	ctattcctat	6000
gaaattattg	agaagaccac	acggaccctt	gaagagggtg	ggtactcata	tgacataagt	6060
gaaaagacca	ccagccccc	cgaagtgagt	ggttacagct	atgaaaagac	tgagaggtct	6120

agaaggcttc	tggatgacat	cagcaatggc	tatgatgact	ctgaggatgg	tggccacaca	6180
cttgggggacc	ccagctactc	ttatgaaacc	actgagaaaa	ttaccagttt	ccctgagtct	6240
gaaggttatt	cctatgagac	atctacaaag	acaacacgaa	cccctgatac	ttccacatac	6300
tgttacgaga	ctgcagagaa	aatcactaga	acccctcagg	catccacata	ttcctacgag	6360
acttcagacc	tatgctacac	tgcagaaaag	aagtccccct	cagaagcccg	tcaggatgtc	6420
gatttatgcc	tcggtgcctc	ttgtgaatac	aagcacccca	agacagagct	ttcacctctc	6480
ttcattaatc	ccaatcctct	tgagtggttt	gccagtgaag	aacccactga	agaatctgaa	6540
aagccccctca	ctcaatcagg	gggagcccca	ccgcctccag	gaggaaagca	acagggccga	6600
cagtgtgatg	aaacccctcc	cacctcagtc	agcgagtcag	ccccatccca	gaccgactct	6660
gatgttcccc	cggagactga	agagtgcctc	tccatcacgg	ccgatgccaa	tatcgactct	6720
gaagacgagt	cggaaaccat	ccccacagac	aaaactgtca	cgtacaaaca	catggaccca	6780
cctccagctc	ccgtgcaaga	ccgcagccct	tgcgccagcc	accctgatgt	gtccatgggtg	6840
gacccagagc	ccttggccat	tgagcagaa	ctgggcaaa	ctctaaagaa	agatctgaaa	6900
gagaagacca	aaaccaaata	gccaggtaca	aagaccaagt	catcttcacc	tgtcaaaaag	6960
agtgatggga	agtctaagcc	cttggcagct	tcaccaaata	cagcgggctt	gaaagaatcc	7020
tcggataaa	tgtccagggt	ggcttctcct	aagaagaaag	aatctgtgga	aaaggcagca	7080
aaacccacca	ccactcctga	ggtcaaagct	gcacgtgggg	aagagaaaga	caaggagacc	7140
aagaatgctg	ccaatgcctc	tgcatccaag	tcggccaaga	ccgccactgc	aggaccagga	7200
actaccaaga	cgaccaagtc	atctgctgtg	ccccaggccc	tccctgtgta	tttggacctg	7260
tgctacattc	ctaaccacag	caatagtaag	aatgttgatg	tggaattttt	caagagagtg	7320
cggctcttct	actacgtggg	gagtgggaat	gacctgctg	ctgaggagcc	cagccgggct	7380
gtcctggacg	ctttgttgga	aggaaaggct	cagtggggca	gcaacatgca	ggtgacactg	7440
atcccaactc	atgactcaga	agtgatgagg	gaatggtacc	aggagaccca	tgagaaacag	7500
caagatctca	acatcatggg	tttagcaagc	agcagcacag	tggttatgca	agatgaatcc	7560
ttccctgcat	gcaagattga	actgtaaaaa	ccaaggccag	ccacaccaca	ggtctggaac	7620
tttgtttcca	gaaattcttc	aatttgaaat	caccttttct	aaaaagtcaa	ttcatctagt	7680
taagtgcgtg	aacaattacc	tgccaaatgc	tatactgtgt	catggtgatg	caagtcacta	7740
aatttctcag	ttttgtctga	ttgctaaggg	aaataacagt	atttccacaa	taggggttcaa	7800
attcctgcaa	aattacctac	cccagttcat	ctctgctgaa	catttggaat	ccatgcacta	7860
gccaaaccaa	ctgacttctg	ctaggtagag	gcatttgtct	tagagagaga	gagagcgagg	7920
gagagagtga	gagcacaaag	gagcacaaga	ataacgcag	tgagagagag	agaaagtatg	7980
aggaaagaaa	aggaatgcaa	gagaaggaga	tgtaattgac	gagagtctct	gtgagatacc	8040
cagagagaaa	aagagagagc	aggggtgggg	aaggaggaga	aaataaacca	acaattaggt	8100
ctgcattttc	tcaggcagta	ggcattcttt	agtctacata	ggcaaagttt	tccatttttg	8160
tcagtctgag	tcatcaaaaa	gagtcttaat	tttctaaaa	aagttggcta	gaagaaagta	8220
aaaagaacaa	cacttggtat	gagggcatgt	gatattttca	catcttaatt	aagtccttct	8280
agtttgaagg	ctgcacactg	acataatgta	gtgagtgtag	actggccatg	caagtggttt	8340
gggccccatt	cagaactctc	agactctaaa	cacacaagta	gattgatcta	aggctgctct	8400
ccagcatttg	tccacccact	tagtccactc	tgagtgcatt	aacctgcatg	cagcaacacc	8460
caagtccacc	ccaattaact	gaagcaaata	ccaaagcagt	tgggagtaca	tatggtagac	8520
aatttgcctt	aggaagtgac	ttgaatgtac	aaagatactt	gatgcactta	ttttttaatg	8580
tgagacagca	agtttataaa	acatccatat	aggattatag	atacttaaag	gaacacgtgg	8640
gtgagcgtgt	gtgggggtac	tagaagctga	cttgatttgt	ccaacagttt	gatgtgtagt	8700
catgcgtgtt	gaatccactc	tcagtgcacc	tgtggcctct	cagtcaaaca	agttgtgcct	8760
ttcacagctt	ctttactact	gcaagttcaa	gactgaaatg	gcttctatga	tcagaactgg	8820
gaaaacagtg	aatcttatgg	tggaagaggt	tctcagcaag	tgtacagtat	ttaccttctc	8880
ttgtcttaca	ttggcttttt	aaattttcca	ttaatttcaa	cataattatg	ggaacaagtg	8940
tacagaagaa	tttttttttt	aagatatgtg	agaacttttc	atagatgaac	tttttaacaa	9000
atgttttcat	ttacaggaaa	ttgcaaagaa	aattctcaag	tgatagtctt	tttttttaag	9060
tgtttcgtaa	gacaaaaatt	gaataatgtt	ttttgaagtt	ctggcaagat	tgaagtctga	9120
tattgcagta	atgatattta	ttaaaaaccc	ataactacca	ggaataatga	tacctccac	9180
cccttgattc	ccataacata	aaagtgtctc	ttgagagtgg	gggagaatgg	catggtaggc	9240
tacttttcag	ggccttgaca	agtacatcac	ccagtgggtat	cctacatact	tctttcaaga	9300
tctttcaacca	tgaggtaaaa	gagccaagtt	caaagaaccc	tagcacaat	ttgctttggg	9360
attttctttt	ctggaaaaaa	aaantaagaa	aaatagtaca	ttgaaaacaa	atgaattctc	9420
aactcctacg	gttcagttag	agtttagaga	aaatttccat	cattgtcatc	attgaactgt	9480
gaacctggga	agccagatca	tgattaacac	tgacattcaa	gtttcaagtt	gcagatcaat	9540
gcacccagtg	ttcagatgag	gcaaacttct	ccgtgacaac	tgtgctgtgc	tctgtcacat	9600
tacatttctc	gcagactcta	agatctacgg	agtagagaac	aatgacctca	ttttattttc	9660
tatgttagtt	atttatttca	aaattaacat	tttagttgat	ttttgtctga	taagtctatg	9720
ttttgcactg	ctaactatga	tgagggttta	aaaaaatgct	tcttcagggt	cctttcactg	9780

```

aggacctatg cagtctactt aatgctgtga attacathtt tcaaagtgtt aattttttta 9840
agaaaaattaa tattctathtt ttgttaggct tctctagaaa tgcagctttt atttattacc 9900
ccattttcttt caagtccttg gaaaataaca tattaagggg acaagaaatt aacacatgat 9960
ggaaaagtca ttgtgacgcc aatgaatttc attgagtata aactcatcta cttcaaattt 10020
atttttataac acaacctaa gaaactcaaga taattattta atggtttagct cttaggttga 10080
attgggtctac ataatgcgtg ggaagaaaac cagattttta gccttcttgc caaatccaga 10140
cctctgggttg atttttcttt gacagaagat gcaagttatt ttccaatttc acaattaaat 10200
gtattttaaca tgaacattat tttgctttta aaactataaa cattgttagga gaattatagc 10260
cagtcttcag ttataaccac tccaccctcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 10320
ntgcnatggg atttaatggg aaaaatatgt aaaaactgtc actagtcagc tggctctttt 10380
tcctatgaaa tctatcagta cttttctcca tccgttggtt tcaataatga ccacagagcc 10440
tgagtatacc aagaaaacca atattcgcat tacaggttgc tctgttcctt ccagacacct 10500
ttcctgacctg tgtgactaac ctaatttttg tagttccata aatacacgat tagtttagta 10560
acagccatca caatgtacca tgtacattca tgggtgagagc taaagatcga cacagacttc 10620
taggagcttt gttcatactg attacttaat ccaattgtat agattgaata tttgagtggg 10680
aggaattttac actctgttta aatgatggga ttctatcgag atagcactca tgatcatgac 10740
cttttttggtg gtattcttaa acaaaattct acagagacta aatgttagcg atgacctcc 10800
attttcaatt ttaaccaatt ctgtcccctt tctcaaaacc ctgagccctg tgcattgctt 10860
ctcagtcctg tgggtgggact ggatacaatg actaacttcc cctcctcccc tctttaaaca 10920
ccatttttcca tggagttcaa aaaaattttt tttcttaacg ttacatatca tagtgaatgg 10980
tttccccagt gtatatgaat gttttaagtg tctccaatag cttatgcagt ctaggagctt 11040
tccaatactc atttaattaa gatttaatca tttgtctaag gaaatcttac cacctttcat 11100
tttccctctg ttaccaaatt tcagctctta ggagctgtc tacaattctg aatttgcttt 11160
tcttgctctc ttttagtcac ctgtcacagg aggttctctg tcagtaatga tattgtgagt 11220
taggataata actttttttt tttgtgcttc agatttagaa gaaaagatcc tgtttccatt 11280
tgaaaggaac tgtaagcttt tatcttttaa ccaactgaac aatacaccaa aagcagccta 11340
gggatgagca tttctttgaa agcaattagg ttattcacct ggtattaaaa ctatttactg 11400
ttaaaaaatc tgtgacttca tgaagttgat ttttaaaggc agcatcaaaa actgaaaagg 11460
aagggaaaaa ataggcagct tctctgcact tgtttggagc tccccaaaac aggagccatg 11520
gagaagtggc atcaagacgc ggctgccctt tcgagaacac cctgtggcag ttcagagaca 11580
cgcttttctc acactgcctg cagccctctt ttccagcact ggaaagaagt ggtcttgagc 11640
ccagctgaga agcacttcac actcctctct cttgttctga atgggtgttg tgtcagctctg 11700
cagctgtgta tgggtattatg tcttataatc ctgcactact tctatcctat ccagtcatat 11760
ctaattgtaga aaattagttt ccagtgaaag taatatgtag tgcttttatg atatttgtgt 11820
gcaatatccc ctcttcattt gaggatattt gatgtaaagg aaaaaaaaaa actcagttcc 11880
acaataaaat acaaaagtgg caaaaaaaaaa aaaaagg 11917

```

```

<210> 33
<211> 2982
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 413797.7

```

```

<220>
<221> unsure
<222> 1770-1816
<223> a, t, c, g, or other

```

```

<400> 33
cgtagattac aacgtcgtga cgtgcgaaaa attgggtttc ttggaaatca cctgtccatc 60
gttaatttta aacaatctcc atatctccaa agaactctct ccatgttagt ctggaatgtg 120
gttaaatgaaa aacaagttagg gaggatttct ggggcaaaac ctgccggatc aggatcgtag 180
ttctcaggca cggaatggct agtgtgagaa acaccaacag caggcccatc tcagatcttc 240
actatggcaa cttatgcaag aaactgttga attagaccgg tttcctatag atgagaaacc 300
atacaagctg tgggtattat gagcctccat ttcttatact actgcagtga accaacttgc 360
gatgtgaaaa ttgccttttg tcagggatcc gataaacaag tggatgtgtc atatattgcc 420
aaacattaca acatgagcaa aagcaaagtt gacaaccagt tctacagtgt ggaagtggga 480
gactcaacct tcacagttct caagcgtcac cagaatctaa agcctattgg ctctggggct 540

```

PA-0024 US

```
cagggcataag tttgtgccgc gtatgatgct gtccttgaca gaaatgtggc cattaagaag 600
ctcagcagac cctttcagaa ccaaacacat gccaaagagag cgtaccggga gctgggtcctc 660
atgaagtgtg tgaaccataa aaacattatt agtttattaa atgtcttcac accccagaaa 720
acgctggagg agttccaaga tgtttactta gtaatggaac tgatggatgc caacttatgt 780
caagtgattc agatggaatt agaccatgag cgaatgtctt acctgctgta ccaaagtgtg 840
tgtggcatta agcacctcca ttctgctgga attattcaca gggattttaa accaagtaac 900
attgtagtca agtctgattg cacattgaaa atcctggact ttggactggc caggacagca 960
ggcacaagct tcatgatgac tccatatgtg gtgacacggt attacagagc ccctgagggtc 1020
atcctgggga tgggctacaa ggagaacgtg gatatatggt ctgtgggatg cattatggga 1080
gaaatgggtc gccacaaaat cctctttcca ggaagggact atattgacca gtggaataag 1140
gtaattgaac aactaggaac accatgtcca gaattcatga agaaattgca acccacagta 1200
agaaactatg tgggaatcg gcccaagtat gcgggactca ccttcccaa actcttccca 1260
gattccctct tcccagcgga cctcgagcac aataaaactca aagccagcca agccagggac 1320
ttgttgtcaa agatgctagt gattgaccca gcaaaaagaa tatcagtgga cgacgcctta 1380
cagcatccct acatcaacgt ctggtatgac ccagccgaag tggaggcgcc tccacctcag 1440
atatatgaca agcagttgga tgaaagagaa cacacaattg aagaatggaa agaacttatc 1500
tacaaggaag taatgaattc agaagaaaag actaaaaatg gtgtagtaaa aggacagcct 1560
tctccttcag cacaggtgca gcagtgaaca gcagtggagag tctccctcca tctcgtctg 1620
tcaatgacat ctcctccatg tccaccgacc agaccctggc atctgacact gacagcagcc 1680
tggaagcctc ggcaggaccc ctgggttggt gcaggtgact agccgcctgc ctgcgaaacc 1740
cagcgttctt caggagatga tgtgatggan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1800
nnnnnnnnnn nnnnnnacat caagaaaaca gcaagggaga gaatccaagc ctaaaattaa 1860
ataaatcttt cagcctgctt ctccccagg gttctgtatt gcagctaagc tcaaatgtat 1920
atttaacttc tagttgctct tgctttggtc ttcttccaat gatgcttact acagaaagca 1980
aatcagacac aattagagaa gccttttcca taaagtgtaa ttttaatggc tgcaaaaccg 2040
gcaacctgta actgcccttt taaatggcat gacaagggtg gcagtggccc catccagcat 2100
gtgtgtgtct ctatcttgca tctacctgct ccttggccta gtcagatgga tgtagatata 2160
gatccgcatg tgtctgtatt catacagcac tacttactta gagatgctac tgtcagtgtc 2220
ctcagggtc taccaagaca taatgcaact ggggtaccaca tgggtccattt catgtgatct 2280
attactctga cataaaccce tctgtaatat attgccagta tataagctgt ttagtttgtt 2340
aattgattaa actgtatgtc ttataagaaa acatgtaaag ggggaatata tggggggagt 2400
gagctctctc agacccttga agatgtagct tccaaatttg aatggattaa atggcacctg 2460
tataccaatt tgtagaaaga acatatgtga tacttatgta aagtgtgggg ggagtgggta 2520
acagttttca ggcacaaaat ggtttggcct tcagaaggca ggtgtgaata aaagctgaga 2580
gtcttttctg tgacagtaaa gagtaggaga gactggaggg tagtgtgtgg tgtggactaa 2640
gactgaaagg aggttattac ccagatacta ggagacactg gtgtccctgt tttagagatt 2700
tggctctata cccatttgct atttctcaat tactggtcac aacaagaggc cactggagaa 2760
agtggcaggt ggtgaagcaa ggttattgtg tgtgcttttg atgataagaa tctctctctg 2820
gaactgagca gaattgcctc catgtgaatt ccttcaacaa aaaaatgagc ctgcctagac 2880
tactttcaga ttgtggattg tgttttccat gtgtgggctg cttccctgat tcatactctg 2940
ccaaagtttt attttgagaa ataattattac tttcctcttc tg 2982
```

<210> 34

<211> 2677

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 413797.5

<220>

<221> unsure

<222> 2024

<223> a, t, c, g, or other

<400> 34

```
ctcgaggggca gcatcacgct gcacaatggt ttccaggcag tgaaagaggg tgattcagca 60
agccactctt cttctatatt ctttaacctc cccttcaact tttattttta tgggggtggg 120
tgggtgcttg tatatgctta cttttttctt ttcttttttc atttttacaa atttcccttt 180
ttgtccctcac ccctcaattc ctaggggctt gagtgaagtt aagattgggt tttcttggaa 240
```

atcacctgtc	catcgttaat	tttaaacaat	ctccatatct	ccaaagaatc	tcttccatgt	300
tagtctggaa	tgtggttaat	gaaaaacaag	tagggaggat	ttctggggca	aacactgccg	360
gatcaggatc	gtagttctca	ggcacggaat	ggctagtgtg	agaaacacca	acagcaggcc	420
catctcagat	cttcactatg	gcaacttatg	caagaaactg	ttgaattaga	cccgtttcct	480
atagatgaga	aaccatacaa	gctgtggtat	ttatgagcct	ccattttctta	tactactgca	540
gtgaaccaac	attggatgtg	aaaattgcct	tttgtcaggt	gtgtgttcct	tacaggtaaa	600
acaaggggatt	cgataaacia	gtggatgtgt	catatatgtc	caaacattac	aacatgagca	660
aaagcaaagt	tgacaaccag	ttctacagtg	tggaaagtggg	agactcaacc	ttcacagtcc	720
tcaagcgcta	ccagaatcta	aagcctattg	gctctggggc	tcagggcata	gtttgtgccg	780
cgtatgatgc	tgtccttgac	agaaatgtgg	ccattaagaa	gctcagcaga	ccctttcaga	840
accaaacaca	tgccaagaga	gcgtaccggg	agctggtcct	catgaagtgt	gtgaaccata	900
aaaacattat	tagtttatta	aatgtcttca	caccccagaa	aacgctggag	gagttccaag	960
atgtttactt	agttaatggaa	ctgatggatg	ccaacttatg	tcaagtgatt	cagatggaa	1020
tagaccatga	gcgaatgtct	tacctgctgt	accaaagtgt	gtgtggcatt	aagcacctcc	1080
attctgctgg	aattattcac	agggatttaa	aaccaagtaa	cattgtagtc	aagtctgatt	1140
gcacattgaa	aatcctggac	tttggactgg	ccaggacagc	aggcacaagc	ttcatgatga	1200
ctccatatgt	ggtgacacgt	tattacagag	cccctgaggt	catcctgggg	atgggctaca	1260
aggagaacgt	ggatatatgg	tctgtgggat	gcattaatggg	agaaatgggt	cgccacaaaa	1320
tcctcttttc	aggaaggac	tattattgac	agtggaataa	ggtaatgaa	caactaggaa	1380
caccatgtcc	agaattcatg	aagaaattgc	aaccacacag	aagaaactat	gtggagaatc	1440
ggcccaagta	tgcgggactc	accttcccc	aactcttccc	agattccctc	ttcccagcgg	1500
actccgagca	caataaactc	aaagccagcc	aagccaggga	cttgttgtca	aagatgctag	1560
tgattgaccc	agcaaaaaga	atatcagtg	acgacgcctt	acagcatccc	tacatcaacg	1620
tctggtatga	cccagccgaa	gtggaggcgc	ctccacctca	gatatatgac	aagcagttgg	1680
atgaaagaga	acacacaatt	gaagaatgga	aagaacttat	ctacaaggaa	gtaatgaatt	1740
cagaagaaaa	gactaaaaat	ggtgtagtaa	aaggacagcc	ttctccttca	ggtgcagcag	1800
tgaacagcag	tgagagtctc	cctccatcct	cgtctgtcaa	tgacatctcc	tccatgtcca	1860
ccgaccagac	cctggcatct	gacactgaca	gcagcctgga	agcctcggca	ggacccttgg	1920
gttgttgacg	gtgactagcc	gcctgcctgc	gaaacccagc	gttcttcagg	agatgatgtg	1980
atggaacaca	cacacacgca	gacacacaca	caaccacaaa	attnaggaca	cacaacatca	2040
agaaaacagc	aaggagagaga	atccaagcct	aaaattaaat	aaatctttca	gcctgcttct	2100
tccccagggt	tctgtattgc	agctaagctc	aaatgtatat	ttactttcta	gttgctcttg	2160
ctttgtgtct	cttccaatga	tgcttactac	agaaagcaaa	tcagacacaa	ttagagaagc	2220
cttttccata	aagtgtgaatt	ttaatggctg	caaaaccggg	aacctgtaac	tgccctttta	2280
aatggcatga	caaggtgtgc	agtggcccca	atcagcatgt	gtgtgtctct	atcctgcate	2340
tacctgtctc	ttggcctagt	cagatggatg	tagatacaga	tccgcatgtg	tctgtattca	2400
tacagcacta	cttacttaga	gatgctactg	tcagtgtcct	cagggtctta	ccaagacata	2460
atgcactggg	gtaccacatg	gtccatttca	tgtgatctat	tactctgaca	taaaccatc	2520
tgtaatatat	tgccagtata	taagctgttt	agtttgtaa	ttgattaaac	tgtatgtctt	2580
ataagaaaac	atgtaaagg	ggaatatatg	gggggagtg	gctctctcag	acccttgaag	2640
atgtagcttc	caaatttgaa	tggattaaat	ggcacct			2677

<210> 35

<211> 4898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 347118.5

<400> 35

ccggcgaggc	cctgctctcg	caactcaaga	tggcgggacga	gagtgagaca	gcagtgaagc	60
cgccggcacc	tccgctgccg	cagatgatgg	aagggaacgg	gaacggccat	gagcactgca	120
gcgattggca	gaatgaggag	gacaacagct	acaaacgggg	tggtttgagt	ccagccaatg	180
acactgggca	caaaaagaag	aaaaagaaac	aaaaaaagaa	gaaagaaaaa	ggcagtgaga	240
cagattcagc	ccaggatcag	cctgtgaaga	tgaactcttt	gccagcagag	aggatccagg	300
aaatacagaa	ggccattgag	ctgttctcag	tgggtcaggg	acctgccaaa	accatggagg	360
aggctagcaa	gcgaagctac	cagttctggg	atacgcagcc	cgtccccaag	ctgggcgaag	420
tgggtgaacac	ccatggcccc	gtggagcctg	acaaggacaa	tatccgccag	gagccctaca	480
ccctgcccc	gggcttcacc	tgggatgctt	tggacctggg	cgatcgtggg	gtgctaaaa	540

aactgtacac	cctcctgaat	gagaactatg	tggaagatga	tgacaacatg	ttccgatttg	600
attattcccc	ggagtttctt	ttgtgggctc	tccggccacc	cggctggctc	ccccagtggc	660
actgtggggt	tcgagtgggc	tcaagtcgga	aattgggttg	gttcattagc	gccatcccag	720
caaacatcca	tatctatgac	acagagaaga	agatggtaga	gatcaacttc	ctgtgtgtcc	780
acaagaagct	gcgttccaag	agggttgctc	cagttctgat	ccgagagatc	accaggcggg	840
ttcacctgga	gggcatcttc	caagcagttt	acactgccgg	ggtgggtacta	ccaaagcccg	900
ttggcacctg	caggtatttg	catcggtccc	taaacccacg	gaagctgatt	gaagtgaagt	960
tctcccacct	gagcagaaat	atgaccatgc	agcgcaccat	gaagctctac	cgactgccag	1020
agactcccaa	gacagctggg	ctgcgaccaa	tggaaacaaa	ggacattcca	gtagtgcacc	1080
agctcctcac	caggtacttg	aagcaatttc	accttacgcc	cgatcatgagc	caggaggagg	1140
tggagcactg	gttctacccc	caggagaata	tcacgcacac	tttcgtgggtg	gagaacgcaa	1200
acggagaggt	gacagatttc	ctgagctttt	atacgtgcc	ctccaccatc	atgaaccatc	1260
caacccacaa	gagttctcaa	gctgcttatt	ctttctacaa	cgttcacacc	cagacccttc	1320
ttctagacct	catgagcgac	gcccttgctc	tcgccaaaat	gaaaggggtt	gatgtgttca	1380
atgcactgga	tctcatggag	aacaaaacct	tccgtggagaa	gctcaagttt	ggcatagggg	1440
acggcaacct	gcagtattac	ctttacaatt	ggaaatgccc	cagcatgggg	gcagagaagg	1500
ttggactggt	gctacaataa	ccagtcacca	gtgcgattct	ggataaagcc	actgaaaatt	1560
cgaaccagga	aatggaaccc	caccactggt	ggtccaattt	tcacacacgt	gagaatccct	1620
ggcaaaggga	gcgaactga	accggcttta	ccaaaccgcc	agcgaacttg	acaattgtat	1680
tgcgatggcg	tgggctgcgt	gacgtcacct	ccggctcgtg	ctctgggtctc	cggtgttttc	1740
agttaattac	atcctcatgc	agccgtgate	aagggaatgt	aactgctgaa	aactagctcg	1800
tgattggcat	ataatggagt	taacgggtga	ataataaaag	tatatatata	tattatata	1860
atataaatat	tttaaataatc	tttcatgttc	caaagtaca	aggatgtttg	gtctttaatg	1920
aaaagctgaa	tctcagatat	tctcagatat	gaggaccoga	ggacagtggc	agacagacgc	1980
gttggcacag	ttcatggttt	cctccagagg	agacattggc	ttatcatggg	gaaaaagagg	2040
atctggagaa	cctcatccag	ctccccttct	gaatcagctg	ggatgactgg	ctttgagaag	2100
gaagggaaga	tggaacaggc	tcagatctca	tgggatagca	cgtggagctc	ttggctgggg	2160
ctgaccctgg	gcagggactt	tccctgcagg	ccagacctgc	ctgcattctg	agacaaagca	2220
atggacggtc	cgcagaagca	gacctcattg	attgagtcct	ttcttccatc	cccttggcct	2280
gctccctgta	ggaagtcatc	ctgccaaactg	attttaaagg	gctcttttagc	cagttgttgc	2340
caaccttata	ggatgagtc	ccctgtgaga	ttttgtcttt	ccactgcctg	ggatgatgca	2400
gtttgaagag	gcccttggac	ctccttgtaa	catcaggggac	ctttggagac	cattatcagt	2460
gtaagccctg	cttagctcat	cttagagcaa	agagccagca	ccctgatgtc	cctgggggtg	2520
ctaggcagga	gtggcgtggg	gccaatatccc	agaccccttc	agccaccagc	ccctggcctg	2580
tgccttccaa	cccattagcc	atctcttgtt	gtgccccctt	ccaagataca	gcctgcaagt	2640
ggtagcaaga	agtgtattaga	ggcagatctg	gacttggcaa	cagaagtggg	ttcccacttc	2700
caattgtctga	ctctgatttt	cgctgatgct	gttttgtgga	tttttgtggg	agtgtgctt	2760
gtcagtgtcg	ccagtttccc	aaaacgtaat	caagcctctg	gtcacatggc	tgtcgatgta	2820
ggcattcttg	agtgggtgtc	agccaagtga	ccgggcaaaa	ttgggctgtg	aaattgtact	2880
tccaggcttg	gatgtaattt	ttgctctaga	gagaagcaag	tgggtgggaag	gaggtagcat	2940
gacgtgtggt	gtgcggggtt	ccttgctgcc	gtcacctctc	cgctcataca	ggaatgaage	3000
cttagccagg	aggccaggct	cagccctgtg	ccactcaccg	aagccacttt	ctacaggcca	3060
gcaggggctt	gttgcaggct	gtgggttttg	gtgtggtttg	tcagaggcta	attctgcaga	3120
gtttccaaaa	ccagaagaca	tcgtatgctt	gggatggggg	ccgtgccacc	cgtgggaatg	3180
ctgcccgcctc	tgcagactgc	tgctagagcc	agcaactcca	ctaaggtgga	ttttcatcag	3240
gggcctgcag	ggccctccct	tttcccattg	ttcctgcgct	gcaaattgca	ggccccagca	3300
atcgtgactg	acgtttgtct	cttgactcca	agaaaactgag	accaaagaag	ctgctgttct	3360
tagcaagatg	cgcactgcat	tccacagggtg	ggaggagtgc	gagaggcagg	ggcttgcctt	3420
gcagccccac	agacaacagt	tgcacagtgc	ctcaagcccc	agagtggctc	accctgtcca	3480
gacctttgag	gatatacaag	gacaaagtgc	ccaagtcttt	cctaccttgg	gggaacctgg	3540
aacttggaaa	ggctccctgt	cctagtcttg	atctgttctg	ggccaggctc	cagcttgagc	3600
tgcctctgag	atttgggctg	tgcgatctct	tggagtgagc	tctgtttcgg	ttgaccagag	3660
tcattggaatg	gaaacgggtga	ggccccagtg	gctgttcttg	aagaaacaga	tctcctggca	3720
aaggccccag	catctccctc	actgaaacca	ggtggccggc	tcctcggact	ctgctttatg	3780
ttgcggtgag	aactctgccc	aggtgtgcag	gttttggctt	gtgggctgct	tgctgtcat	3840
ctgatttttg	tcccagtagt	ccctgcgttc	ttcattcaac	cccttctggg	acttcagctc	3900
agagagcacc	atcccggggg	tcagggcctc	cccacaggag	ccctgcagtg	tggtagcgcc	3960
atggctgtct	caaaccaagc	aaaggaagga	ccctgaggcc	ttcacgctaa	ccgtcctcga	4020
gcaactgctg	ttggaaggcc	tccttgggcc	tggccccccac	cctctgccac	ccagtcctcc	4080
cagctgccat	gtttcaaaga	cgacctttac	ctcctgcctt	tggattgact	ctgcatttga	4140
ccacgggctc	cagtcgtgtg	gtagggagag	agctgagtag	gaggcctcca	ctccggatcg	4200

PA-0024 US

aggcctgtat	agggctcggt	tccccacaca	tgccatatttc	tgaagaggct	tctgtcttat	4260
ttgaaggcca	gccccacccc	agctacttta	acaccagggt	tatggaaaat	gtcaggcctt	4320
ccccacaact	cccgtctaac	tgctgtcgcc	cccctacttg	ctggctctca	gaagcctagg	4380
ggagtccttg	tggtcctgaa	ttctttcccc	aaagacgacc	agcatttaac	caacctaagg	4440
gccccaaagg	cttggaacaac	tgcatggagc	tgcaactctag	gagaaggagg	ggaaccagat	4500
gttagatcag	gggaggggagc	aggagtgtcc	ctcccgtcag	tgccctacca	cctgtgaggc	4560
agcctttctga	tggcctggcc	caccttcccc	agaaccaggg	gaggcctgag	gcttcagttt	4620
tactctgctg	caaaatgaag	gcgggcctgc	aagccgacta	cacctacgga	ggctgttgag	4680
gacaattttca	ttccattaaa	ttaaaaaata	ctgactggct	ggcaggcagg	tgccatgtct	4740
gggaacaggg	acggggggagc	ttcacctttt	tgtcttggct	tttctttggg	ctgtgggggg	4800
gcatccattt	ccagggtcgg	ggaggaaata	ccaaatgcat	tgttgttctg	ctcaatacat	4860
ctcacttggt	tctaataaag	aaagcagctg	aacaaaaa			4898

<210> 36

<211> 3430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 234069.2

<400> 36

aaagcagcag	ccagcagcgc	gccggtggcg	tgccgctcga	aaggccggga	ggacgtcatc	60
gacgcgctgt	cgagcctcca	gcccgcgcgg	gtttccttcg	cagtcgcgca	ccgacgtcca	120
aacgcgcgct	ccaaccgcga	gcctcctcct	gcctcaccgc	ccgaagatgg	cggctctcaa	180
actcctctcc	tccgggcttc	ggctctgcgc	ctctgcccgc	ggatctgggg	caacctggta	240
caagggatgt	gtttgttcct	tttccaccag	tgctcatcgc	cataccaagt	tttatacaga	300
tccagtagaa	gctgtaaaaag	acatccctga	tggtgccacg	gttttggttg	gtggtttttg	360
gctatgtgga	attccagaga	atcttataga	tgctttactg	aaaactggag	taaaaggact	420
aactgcaagtc	agcaacaatg	cagggtttga	caattttggt	ttggggcttt	tgcttcggtc	480
caagcagata	aaacgcattg	tctcttcata	tgtgggagaa	aatgcagaat	ttgaacgaca	540
gtacttatct	ggtgaattag	aagtggagct	gacaccacag	ggcacacttg	cagagaggat	600
ccgtgcaggc	ggggctggag	ttcctgcatt	ttacacccca	acagggtatg	ggaccctggt	660
acaagaagga	ggatcgccca	tcaaatacaa	caaagatggc	agtgttgcca	ttgccagtaa	720
gccaagagag	gtgagggagt	tcaatggtea	gcactttatt	ttggaggaag	caattacagg	780
ggattttgct	ttggtgaaaag	cctggaaggc	ggaccgagca	ggaaacgtga	ttttcaggaa	840
aagtgcaggg	aatttcaact	tgccaatgtg	caaagctgca	gaaaccacag	tggtagagg	900
tgaagaaatt	gtggatattg	gagcattttg	tccagaagac	atccatattc	ctcagattta	960
tgtacatcgc	cttataaaag	gagaaaaata	tgagaaaaga	attgagcggt	tatcaatccg	1020
gaaagaggga	gatgggggaag	ccaaatctgc	taaacctgga	gatgacgtaa	gggaacgaat	1080
catcaagagg	gccgctcttg	agtttgagga	tggtactgtat	gctaatttgg	gcataggaat	1140
ccctctcctg	cttcagcaatt	ttatcagccc	aaatataact	gttcactctc	aaagtgaaaa	1200
tgaggttctg	ggtttggttc	catatccacg	acaacatgaa	gctgatgcag	atctcatcaa	1260
tgagggcaag	gaaacagtta	ctattcttcc	aggagcctct	ttttcttcca	gcgatgaatc	1320
atttgcaatg	attagagggtg	gacacgtcga	tctgacaatg	ctaggagcga	tgagggtttc	1380
caaatatggt	gacctggcta	actggatgat	acctgggaag	atggtgaaag	gaatgggagg	1440
tgctatggat	ttagtgtcca	gtgcgaaaac	caaagtgggtg	gtcaccatgg	agcattctgc	1500
aaagggaat	gcacataaaa	tcatggagaa	atgtacatta	ccattgactg	gaaagcaatg	1560
tgtaaccgcg	attattactg	aaaaggctgt	gtttgatgtg	gacaagaaga	aagggttgac	1620
tctgattgag	ctctgggaag	gcctgacagt	ggatgacgta	cagaagagta	ctgggtgtga	1680
ttttgcagtt	tcaccaaacc	tcatgccaat	gcagcagatc	gcaaattgaa	atatggatat	1740
ttgtaccagg	ctgcgtgttt	ttcattttta	acacacaaga	tttaattgaa	aggacatcaa	1800
taatcataat	tgtgtattta	acagggtggt	ttttattagt	tttcttgtgt	ttcagacttt	1860
atgcagccat	ataaactgtt	ctctaggcat	gctgtgacat	tttaataaaa	agcaaaagga	1920
gcattttata	ttatctcatt	tgtaaggct	gagaagggtg	tttttataat	aggtaattat	1980
attgaatgca	ttttcactga	atatgggtatg	tatgctaaat	tatatgaacc	tttccccaa	2040
aagggcccta	gaaattgatg	tggttttcc	cttaaatatt	aattattagt	cctgaaagaa	2100
agataacata	tgtgattttt	gtggtttagga	gagttgctgt	catgattgtt	ttttcttcag	2160
cctcctctga	cttttctttt	ggggcttcag	attttatgat	tacatcttgt	ccccctagaa	2220
catccccctt	cctcccatc	tgctttttaa	cagatgccca	agaaggcaag	caggaatgcc	2280

tcttgtgggg	gagggcaggg	agaaataact	agttcaaacc	aactatctat	ctatgctttg	2340
caaagactaa	ggcgtattat	aggaagaggg	ctagaaacct	aactgattct	tctcagtttt	2400
ctcattttta	aacagcccag	tattcctttg	tatcctcaag	ggtccttgag	aatacttctg	2460
ttattgagac	cctgtgggct	acttgtaact	tacctcctct	caagccaaga	agggctgtgg	2520
gataatttac	catgaatcct	tagtagcaat	gacagcagag	ttaaaaaata	aaaggtgttt	2580
tactttcagg	ctcttgTTTT	ggttcagagg	agatttttaa	tattgaatga	cacttctaca	2640
gaacaacggg	ttttcttctg	ccaaggctac	ttcctttaac	gaagtgcctt	taattcagcc	2700
ttatccaact	agggaaaata	atgttggaca	agtctaggat	ttgaagagtc	agtgaacttt	2760
tagtgtcagg	gaataaacat	ggtgggtaga	ttaggtttga	aaaaaacttc	cttagaggta	2820
tttattctca	atacctgaca	ggggcccatg	ggaatgactt	cagaagcatc	ccggataata	2880
gatgggtaaa	aagtctaggc	accctgaaga	acaggtgaga	cagctggcct	ctggacagag	2940
gtaggcatag	tacagtacga	tatatcattc	ctctggctct	aaatatacaa	acttattcat	3000
gttttttaggt	gatgatggtc	attgaaactc	acttcttttc	aggtgtagct	acaattgtgt	3060
aatgtacaat	attagagaaa	ggacaggcct	tttatgagta	acacacacca	tatataaaac	3120
agcctttctg	gctgaccaca	tggttaaagt	cataccttcc	cagtactggg	gggaaaaaat	3180
gacccttctt	agaatgtgca	agttccatga	gagtaataata	ttgatatgat	tttgaaaaga	3240
attgttgata	gttacatctt	caaacttata	attccagtat	gcatctttaa	gataatgtga	3300
ttctaagtag	atgactttat	attcttgatt	aaagagtgtc	atacatgtta	agaaatgcac	3360
taaggaatac	aataaatatt	ctaaagtgat	gtaaaaaaa	aaaaaagggc	ggacgccgac	3420
tagttgagct						3430

<210> 37

<211> 1630

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246531.2

<400> 37

agctgagctg	cgggctgaat	gtcaggtgat	gcgctctgac	ctcttctctga	gcacctagtg	60
tgtgccctgt	gctgggcca	ggaggcatgc	tgggggcaat	gtgggcctca	aggaggaggt	120
cgggtgatga	ggggccaacc	caggggcatg	gtctagtggc	ccagtcagga	cgcggaaaca	180
ctccctggag	gttctgaccc	gctccctctc	agcctccgcc	tggtctctgg	tgtagtgcgc	240
gccgccagcc	gccatgggca	aacagaacag	caagctgcgg	cccaggtgct	tgcaggacct	300
gcgggagaac	acggagtcca	ccgaccacga	gctgcaggag	tggtacaagg	gcttcctcaa	360
ggactgcccc	accggccacc	tgaccgtgga	cgagttcaag	aagatctacg	ccaacttctt	420
cccctacggc	gacgcttcca	agttcgccga	gcacgtcttc	cgcaccttcg	acaccaacgg	480
cgacggcacc	atcgacttcc	gggagttcat	cattgcgctg	agcgtgacct	cgcggggcaa	540
gctggagcag	aagctcaagt	gggccttcag	catgtacgac	ctggacggca	acggctacat	600
cagccgcagc	gagatgctgg	agatcgtgca	ggccatctac	aagatggtgt	cgtctgtgat	660
gaagatgccg	gaggatgagt	ccaccccgga	gaagcgcaca	gacaagatct	tcaggcagat	720
ggacaccaac	aatgacggca	aactgtcctt	ggaagaattc	atcagaggtg	ccaagagcga	780
cccctccatc	gtccgcctgc	tgcagtgcga	ccccagcagt	gccagtcagt	tctgagcgag	840
cggccccctg	acagttgcag	agaaacacag	gcttgctcgt	ccgtttaagc	tttgcttgca	900
agagtggatg	ccccgcaatc	gttctctgct	tcccggggcc	cgggcctggg	gcatgcgttg	960
caactgcccc	gcccgggtgg	tgcgcctccc	tctccacct	gaccaacgcg	acattcctcc	1020
cctcacgcct	ggcccgggtc	cttccagggc	aactcccagg	gatgtggtga	catgcagggt	1080
tcaagtgttc	ttggttccag	gcacctcccg	gctcacgggg	agctcagagg	tccatgccga	1140
ggagaccagg	caggacctcc	cgaggctgcg	ccccggccgg	cccatgcgtt	ttgtgatccc	1200
aagtgactct	gtgggaaggg	tggggacgag	gcgtcggggg	ggtatacagg	gagccccctc	1260
cgtgcatggc	tgcccccccc	ttcattttct	ccaccacagc	cgcttgcacg	tatagatact	1320
gtggctcccc	ttcttttaat	atataaatta	tgtatgggtga	agtgagtggt	attgtgtagg	1380
tcccgatatt	aatgcctctg	actgcctttg	aagcgcagcc	ctctgtggcc	cgcagcccc	1440
tgagcctggc	tggtgtgtgg	tatttatgct	ctctttgtct	gcctgtttct	aaggaaatgc	1500
atgtgtgccc	tgagccgtga	tgatcctccc	atccgtgttg	tgagcacagg	catttgtgtc	1560
tggtctgtcc	tccctgttga	ttggtctggc	atttccggta	ttaaaatgat	aaaataaatg	1620
gcattttctg						1630

<210> 38

PA-0024 US

<211> 1884

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 255816.9

<220>

<221> unsure

<222> 29

<223> a, t, c, g, or other

<400> 38

```
caggccccct cccagcctt gcagggetna ggttaccctt ggcctttcct aaaggctcact 60
cattcctctt gacgtttgca aaaggggaat gtaatcctgg ggtgggggga gaccctcat 120
ctgtagcccc tcccttgctc ctcccaaagg gtggaattag aacagggact gttattggga 180
gacagaaagt ggggatagat agttgacctt tggtaagggg gcaggtgccc agggccagag 240
gcttctgctt caggctgtag tgggcacttg gctgccagcc cagtgtgaag gggggaggat 300
ggagagaaaag agaggcgggg ctggctgggg accgagtggc tcagggataa atgcgcagcc 360
tgagaggggg tgagctgaca ctgtcccagc tgccacctag actcggagct ccatccaaac 420
ctccagcgaa gacatcccag gttgggtgaa tcttccagcc ctgggggtgg aggtagtaaa 480
ggccatggcc atgcagaaaa tctttgcccg ggaaatcttg gactccaggg gcaacccac 540
ggtggagggtg gacctgcaca cggccaaggg ccgattccga gcagctgtgc ccagtggggc 600
ttccacgggt atctatgagg ctctggaact aagagacgga gacaaaggcc gctacctggg 660
gaaaggagtc ctgaaggctg tggagaacat caacagtact ctgggccttg ctctgctgca 720
aaagaaacta agcgttgcg atcaagaaaa agttgacaaa tttatgattg agctagatgg 780
gaccgagaat aagtccaagt ttggggccaa tgccatcctg ggcgtgtcct tggcctgtg 840
taaggcggga gcagctgaga aggggggtccc cctgtaccgc cacatcgag atctcgctgg 900
gaaccctgac ctcatactcc cagtgccagc cttcaatgtg atcaacgggg gctcccctgc 960
tggaaaacaag ctggccatgc aggagtccat gattctgcct gtgggagcca gctcctcaa 1020
ggaagccatg cgcattggcg ccgaggtcta ccaccacctc aagggggtca tcaaggccaa 1080
gtatgggaag gatgccacca atgtgggtga tgaagggtggc ttgcaccca acatcctgga 1140
gaacaatgag gccctggagc tgctgaagac ggccatccag gcggtgtgtt acccagacaa 1200
ggtggtgatc ggcattggatg tggcagcatc tgagttctat cgcaatggga agtacgatct 1260
tgacttcaag tcgctgatg atcccgcacg gcacatcact ggggagaagc tcggagagct 1320
gtataagagc tttatcaaga actatcctgt ggtctccatc gaagaccctt ttgaccagga 1380
tgactgggcc acttgacact ccttcctctc gggggtgaac atccagattg tgggggatga 1440
cttgacagtc accaacccca agaggattgc ccaggccgtt gagaagaagg cctgcaactg 1500
tctgctgctg aaggtaacc agatcggtc ggtgaccgaa tcgatccagg cgtgcaaact 1560
ggctcagttc aatggctggg ggggtgatgg gagccaccgc tctggggaga ctgaggacac 1620
attcattgtg gacctgtgtg tggggctctg cacaggacag atcaagactg gcgccccctg 1680
ccgctcggag cgtctggcca aatacaacca actcatgagg atcgaggagg ctcttgggga 1740
caaggcaatc tttgctggac gcaagtcccg taaccggaag gccaaagtga aagctggagg 1800
ctccaggact ccactggaca gaccaggtc ttccagacct gcttcttgaa ataaacactg 1860
gtgccaacca aaaaaaaaaa aaaa 1884
```

<210> 39

<211> 5766

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 253109.2

<220>

<221> unsure

<222> 4790

<223> a, t, c, g, or other

<400> 39

```

cggaggggata cccggcgacga ggggaccatg taccgggacc cggagggcggc cagcccaggg 60
gcgcctctgc gcgacgtcct gctgggtctct gccatcatca ccgtcagcct tagcgtcact 120
gtcgtcctct gcggcctctg ccactgggtgt cagcgcaaac tgggcaaacy ctacaagaat 180
tccttggaga cggtagggcac gccagactca gggcgtgggc gcagtgaaga gaaggctatc 240
aagttagcctg caggagggaa ggcggtgaac acagcccccg tgccaggcca gacacccac 300
gatgagtccg accgcccggac cgagccacgt tcctccgtct cagacctcgt caactccctc 360
accagcgaga tgctcatget ctccccaggc tccgaggagg atgaggccca cgagggttgc 420
agccgagaga acctgggccc gatccagttc agtgtcggct acaacttcca ggagtccacg 480
ctcaccgtga agatcatgaa ggcccaggag ctgcccggcca aggacttcag cggcaccagc 540
gaccccttcg tcaagatcta cctgctgccc gacaagaagc acaagctgga gaccaagggtg 600
aagcggaaga acctgaaccc ccactggaac gagaccttcg tctttgaagg ttttccctat 660
gagaagggtg tgcagaggat cctctacctc caagtccctg actatgaccg cttcagccgc 720
aacgacccca ttggggagggt gtccatcccc cttaacaagg tggacctgac ccagatgcag 780
accttctgga aggatctgaa gccatgcagc gatgggagtg taaggcccca tgggggagcc 840
gaggggagct gctcttgtct ctctgtctaca acccctctgc caactccatc atcgtgaaca 900
tcatgcaaag cccggaacct caaagccatg gacatcgggg gcacatcaga cccctacgtg 960
aaggtatggc tgatgtacaa ggacaagcgg gtggagaaga agaagacggg gacgatgaag 1020
aggaacctga accccatctt caatgagtc ttcgcccctg atatccccac ggagaagctg 1080
agggagacga ccatcatcat cactgtcatg gacaaggaca agctcagccg caatgacgtc 1140
atcggaaga tctacctgtc ctggaagagc gggccagggg aggtgaagca ctggaaggac 1200
atgattgccc gtccccggca gcccgtaggc cagtggaacc agctgaaggc ctgagtgggg 1260
ccaagggagg cccagggggc cgaggggcca ggtccccatc atgccctcac cactttatgc 1320
acaacgccc gcctgagccc cctgccatag ggaggggagg accctgaggg ctgagccagg 1380
gaggggtccc aggaactcaac tgggccccgt ttctaggaag taccagcccc atccccaca 1440
gtccagctcc ggggaagggg ctctgggagg cattttcctg ctttgccctt tttcttctg 1500
acttactaat actaaagaag ttgggggagc tcgagagcca gacggccaga caggcagacc 1560
cctccagagg ccgcccagggt gggcatggtc ccccattttc tttaaggcag cacctggagt 1620
ggagagaggc cactccctct ccagcccccg atgtggaccc ggggagggga ggctgaggcg 1680
tttgccccg gcctggccag gagaggccca tccccaggc agtttcagggt gccgctggg 1740
ccctgaatgt cgaggatagt atatagcccg ctccctgggtc ctggagctgt ggcctttgt 1800
actcgtgttg tgtccattgt gtgtgtgcgt ggggacagag gcctggaaat gcggaggact 1860
atacagagaa ggcagggttt gtgaaggcca ggcagggttg gaggccgggg gtgtgagagg 1920
agaggcccat agggctgagt ggggtcgggt gaggcagagg tcagaaacag aagagctgca 1980
gttgctggag ctgggctgag aactgggctg cctcctgcca tccccccgtc tcctccctt 2040
ctcccttggt tgccccctc tgcctcagaat ctgaagtgt tccctcctca gcaatttcat 2100
ctcttgaaca ctgtctcaca ccttttaggc acctagtgt tgcatagcac tccaccagg 2160
ctcatctccc ttctttctca gggggtcccg agccccgact agctttgccc taactcctt 2220
atcaaaagac cccccgccag ctccccacac ctcatagca gccacatctg ccctattctc 2280
catgctttcc agcttgccctg cccttctcca tctctccctg cctgtgcaga cctccaccct 2340
tctttcctcc acccctccat cccccaatgc ttgtagacct tccattcatt ccgtctcatc 2400
gtcgtgggtc tctgatctgc catcacctga ccttctccag gactgtcttc tcaccttcc 2460
ccactccctg gtccccggga cgagctcctt ctgcccagct cactcacagt gcagggaag 2520
gaggcaggga aaagaccagg attctgtgag ttctgagggt gccacacaca agaagctgt 2580
ggtttctctg cctcggccac tgatgagact aaaactggct tccccttgga gacggcagat 2640
ttcaggctga tcctgtctta agccctctca tccccacgct ggtcctggta ttgatacaag 2700
accagctgg tgacaaagcc tccaatcctg ggggtccacg agcctgggccc tgacattccc 2760
agaactaccg ccaggtagcg ccaggcccc tgacacccca ggggactctg gatagggtcc 2820
ttccactctg gatgggcctg gaccattggc atttggaac cattttcctt cgaacggctt 2940
cccatccag ggcgtgggga gcttctgca gtagacgggt cgcttttgc ccataccgaa 3000
ccccttgagc ttgaaatcgc acacccccac catttccctc cctgggatc tggaggaaca 3060
tcatacatag taggtgaatc gttttgtaga gtgaagaatg ctaatgtaaa gcaaatagtc 3120
accacgttc ctgttaaatc caaatgtttc tatattgtag ctttgcttaa aatggggtcg 3180
gccccaaactg catctctctc tttggcgggc tgggagcgg cccccagccg ggacgggag 3240
gcagcgaccc cgaggcctcg tggacgtggg agagagtgtg gtgggaagtc ttgagcggag 3300
gaggggatct gcccttctcc actcctctct tggatccgcc tcggtttctt gtccccccac 3360
caccgcctg ccccgcgga gaccgcccag tgagccagcc ccaccttcc aggcgcctt 3420
gccctgggga tccaaccaac ttgtatcgag tgggcggggc aacggctccc catttttccc 3480
gagccccgcc cacagagctc ttagccaatc ctatgcagag agcatctctt ggcagggggtc 3540
tcttcccaac cagacccac ccaggcacat tagcgaccag gcttgggctt cccagcgcc 3600

```

```

ccaccaccac cacgtgcagg tggagctctg ggatgctatg ttggggcggc aagcgggtggg 3660
ccgagggccg ggtaggctag cacgggaggt aaggggtggt tgggatgggg cgggggcggt 3720
ctagggcaat aggagagcag agaatggggg aacttgaggg tggggggagg gcaccggagc 3780
cttgccacca tcccaggact ttgggcaagt caccgcgact ccctgggcct cggtttcccc 3840
atctgtaaaa tgatggtaat aatacttcac ctacctcata ggggagggtg tgaggccacc 3900
atcacctgac ctgggggtca aggcaggagg actccgaagg tgctaccctg gagcaaatg 3960
taattaccga atcctgactg caaggcccac ctgcccctcc cccacagagc ctccagagct 4020
agctgaggcc aacgcaggcc catccgtctc ttcactctgt cgcaggccct ttcattgggt 4080
tcgtctgcca tctttgtggg tgccctagac ttagtcctta tcttgtctg gtttcctttc 4140
ttgtgaccat ctccccatga aagtgtctgt caaatccac ccgccccagg acccccgcac 4200
ctgccctctg gcaccagatg ccagggaagg gacagaggaa aacagccaca aacaagccag 4260
gggggctccc cggagcccca ggggtggggg ttggtggcca ctgtttgtat gttcttgagt 4320
gcaagtgttt tataaaaaat aaaacaaaaa cccaccatca caaaaaaaa aattttgcag 4380
cgaagagaaa tgaagaaaaa ctgaagaaaa aaaaaacaca ggaaaaaaag aaccatacaa 4440
aatttttcca ccacacatac cctctaagcc agcaagattt cctctttgca aaatcatatt 4500
tttgtgggaa tgggcccctg tttttgtggc aaggcctgtt ctgattaata aaggatcgtg 4560
aaaaagtagg gccttggtctg ttttctctcg tgggtcccag ccctccctca cctccctggg 4620
ggcagaggca gtggggtgaa ggggatgggg gccccggggg tgagcctccc ctcatgtgt 4680
cacctttggg atttgacttc actggtgacc aggcccttcc cgagtgtcca gccatctca 4740
gatctctata gaatatgatc ccactggctt cccagaaagc agagaggcan tacatctccc 4800
agatcaggcc tgacacaagg ctttttggga gtagagtctt ctctaggcct caggggtgcc 4860
ctccagggtc acccagcctg acgtcccctc cctcagttcc cagaggacac ttgccatcct 4920
ccaaggcagc tcagacaaac caaaggggga cgtccagctt tcccaccac catccatggg 4980
gccaactgtag tttcaggcca gcgcctcctt cctggtccct gaggtgggaa aaggaaagac 5040
aatgagctct gtgtctgttg gctggacctg cggcttctct cagccctctt ctagtttcat 5100
tctttaggat tagaaaagtc tcttccactc aatagaacag gttccagcct gaggtgtggg 5160
aagctgggtt gtaatccctt ctgcagcctc tgtggccctg ggcaagctct ttccttccac 5220
ctgtttcttc tggccacaac aaagcaataa ccatccccat ccctgcccct ttcttcccca 5280
cccagcccag gggaagctga gccccgcag ctctcagggt acttcagaag gaaggtgcta 5340
catctgggtc agacacaggc acaaaaggaa cgagcacatc cccattgtca tgtgtccacc 5400
tgctggcccc tgccccacc aggagtgaag cgggccatcc catccgccct ctgctccag 5460
cacttggggc cagcagctgc ctcccggagc tgcactaagt accccatcca aagctgtctg 5520
tccctcattt cccacaacct ggtttagata tcaactctga tctctgttcc agagatcaga 5580
ggaagccccg ggtcaggtg agtagcctca ggggtccct tggccagagc ttctgttcag 5640
gcgtctcca tgaaagcagc cctggaaaac tgagcctgaa gtcagagaca gctcaggccc 5700
agcacagggg gcagtccctt gccactggct cgggcccctt ccctggactt tttgcttctt 5760
ccattt

```

```

<210> 40
<211> 3237
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 279800.2

```

```

<400> 40
cgcacctctc ctttcttctg tagctcgcgt tgaagccgca cgtccggccc cgatcccggc 60
accatgagct tcggctcgga gcactacctg tgctcctcct cctcctaccg caaggtgttc 120
ggggatggct ctgcctgtc cgcccgcctc tetggggccg gcggcgcggg cggttccgc 180
tcgcagtcgc tgtccgcag caatgtggcc tctcggccg cctgctcctc ggctcgtcg 240
ctcggcctcg gcctggccta tgcccggcgg cgggcgtccg acgggctgga cctgagccag 300
gcggcgggcg gcaccaacga gtacaagatc atccgctcca acgagaagga gcagctgcag 360
ggcctcaacg accgcttcgc cgtgttcate ggaaggtgc atcagctgga gacgcagaac 420
cgcgcgttgg aggccgagct ggcgcgctgc gacacccacg ctgagccgtc gcgcgtcggg 480
cagctcttcc agcgcgagcc tcgccacctg ccgcagctgg aggaggccag ctcggtctgc 540
tcgcaggccc tgctggagcg cgacgggctg gcggaggagg tgcagcggct gcgggcgcgc 600
tgcgaggagg agagccgcgg acgcgaaggg gccgagcgcg ccctgaaggc gcagcagcgc 660
gacgtggacg gcgccacgct ggcccgcctg gacctggaga agaaggtgga gtcgtgctg 720
gacgagctgg ccttcgtacg ccaggtgcac gacgaggagg tagccagct gctggccacg 780

```

ctgcagcggg	cgctgcaggc	cgcgggccgag	gtggacgtga	ctgtgggctaa	accagacctg	840
acctcggctc	tgagggagat	ccgcgcccag	tatgagtcct	tggccgctaa	gaacctgcag	900
tccgcggaag	aatggtacaa	gtccaagttt	gccaacctga	acgagcaggc	ggcgcgcacg	960
accgaggcca	tccgggccag	ccgcgaggag	atccacgagt	atcggcgcca	gctgcaggcg	1020
cgcaccatcg	agatcgaggg	cctgcgcggg	gccaacgagt	ccttggagag	gcagatcctg	1080
gagctggagg	agcggcacag	tgccgaggta	gctggctacc	aggatagcat	tgggcagctg	1140
gagaatgatc	tgaggaacac	caagagttag	atggcacgcc	accttcggga	ataccaggac	1200
ttgctcaatg	tcaaaatggc	tcttgacatt	gagatagcag	cttacaggaa	actgctggaa	1260
ggcgaggaga	cacgttttag	caccagtggg	ttaagcattt	cggggctgaa	tccacttccc	1320
aatccaagtt	acctgctccc	acctagaatc	ctcagtgtca	caacctccaa	agtctcatcc	1380
actgggctat	cacttaagag	agaggaggag	gaggaggagg	catctaaggt	agcctctaag	1440
aaaacctccc	agatagggga	aagttttgaa	gaaataattag	aggagacagt	aatatctact	1500
aagaaaaccg	agaaatcaaa	tatagaagaa	accaccattt	caagccaaaa	aatataattc	1560
cattgctttg	aaaaagttaa	tgcttaagag	ggaatgatat	gcatttgact	tggttaaacag	1620
cctattcctg	aactataaca	cctgccacca	ctataaaatg	tcttcaaggc	ttcagtctca	1680
tatttagtat	tgaatactta	catttctctaa	taagaaaacc	accccttaga	ttgaagtaaa	1740
ctgcagtcct	ggagcaatca	cagatgagtt	atctaagaat	acagctttct	gaccttcagc	1800
tcacgcttca	cagtgatcga	tgattcaggt	gcagagggaag	tacaaactaa	ggtgctaaat	1860
ctgcgatcat	cgtcatttgc	tgtgaactga	aattaaact	attcatgcta	cccagccatt	1920
accagctaa	ataatcttac	tctagatacc	taaaacataa	gatcactgcc	agagataaac	1980
taatggtcca	cacccaattc	cactctgata	gaattatttc	acaaataata	ggtgtttgtt	2040
taatggacac	ttttcacctc	cttcaattcc	atatatcctt	ttcttctatg	taggaaaaaa	2100
atagcttagt	gtagtattct	tcccttttaa	acacattttg	gttcttctca	aaagaactta	2160
ccccattcgc	cgtctgtctc	agtgggtaaa	attagatgca	tggtgaccat	gtctatgatt	2220
cgtgtaatta	cttatccctg	cccatttcat	attctttcaa	ttctgtaggt	taaaaaaatg	2280
gcagtgatga	attttaaggg	tttcccccaa	catataaaat	aatgcaaaga	atccctagac	2340
tttaggcttt	cagcttacac	aaatctatct	aattaggaaa	aaaactatta	aggatgtagc	2400
ttttcacctt	tacttttagaa	gcacagtaaa	tatcccaaac	tgtgatgaag	ccgaccttag	2460
atttagtagt	gtaagctaga	agaagttagt	gtttctatga	gtggaaaaag	ccaaggtgtc	2520
atttatgtgt	cagttcattt	gtggtgatat	agaattagct	ttttcatccc	cttaccctta	2580
gaatccacgt	attcccttcc	ccactagcct	aggtcataaa	gaggcgttgc	tttactcttc	2640
ctatgccttt	tacgagtgtc	aagtgtagga	tattttgtca	ccagaacaca	atgctaccgc	2700
cccaaagtaa	aagaaaccac	ttctgggtcaa	tcaacactac	cagcgtatat	ataagaaaga	2760
catctttctc	ttttctaaaa	gacttcccta	acacttaccc	catggctgca	cagttggtgg	2820
ggtcctgccg	gagaggaaga	gacactcaga	ccagagaagg	ggtgtgcatg	cgctactctg	2880
cttgctagaa	gtagattctg	gacagtcagc	tcttcatctg	cccaactgtg	tagcatctgc	2940
attgcccagt	ctttcatgtg	tgccaaggct	gatgcaggat	ttgttctctg	tccagcagtc	3000
acttcggcca	gagctgaaga	gttgccccgt	ctctgttcca	tgtctccttt	aagagctctg	3060
gtgataagga	catgatgctt	ttactgaact	ttcttatcct	agcacatgct	tcaatagtct	3120
aaggaaacttg	aaaaataactt	ttccttacct	ttaccccatc	cctgtcttta	ctcctcacac	3180
ttactgtaag	acattagtaa	cataataaat	taaaagtcac	acgaatctca	ccaacat	3237

<210> 41

<211> 1936

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 247570.1

<220>

<221> unsure

<222> 18, 31, 1931-1933

<223> a, t, c, g, or other

<400> 41

gaggggggtgc	ctggagangc	ggaggctcgc	ncgcctgcgc	atccagctcc	agggacccta	60
ggtttttctat	gggattccca	atctgcagca	gagatttacc	cgagcgtgtt	gcggcagcgg	120
ctgggcttgc	aaggcgcgat	ccaagaggga	tttaagcagc	ccagagctcc	agagaaaaag	180
agagcgaagag	agaaccacac	acagagacgg	cttaagcgtt	tacccgaatt	aaatatatat	240

```

ttttaaaaaag aactgtttgag ttttatcatt ttctgttaagt gaccgtgcgc agcgctgtaa 300
ctgcaggatg gggaagcaga atagcaaact ggcccctgaa gtgatggagg acctggtgaa 360
gagcacagag tttaatgagc atgaactcaa gcagtgggtac aaaggatttc tcaaggactg 420
tccaagtggg aggctaaatc tcgaggaatt tcagcagctc tatgtgaagt tctttcctta 480
tggagacgcc tccaagtttg cccagcatgc cttccgaacc ttcgacaaga atggggacgg 540
caccattgac ttccgagagt tcatctgcgc tctgtccatc acctccaggg gcagctttga 600
gcagaagctg aactgggcct tcaatatgta tgacctggat ggtgatggca agatcacccg 660
agtggagatg ctggagatca tcgaggctat ctacaaaatg gtaggcactg tgatcatgat 720
gaaaatgaat gaggatggcc tgacgcctga gcagcgagta gacaagattt tcagcaagat 780
ggataagaac aaagatgacc agattacact ggatgaattc aaagaagctg caaagagcga 840
cccttccatt gtattacttc tgcagtgcga catccagaaa tgagctgatg tcaatgctat 900
ggactgcaca aaagtctcaa tgttccattc agtctgcagc tattcacaca cacacacaca 960
cacacacaca cacatacaca cacacacaca aatattgctt ggactaccta taaatggact 1020
tgcttcttgt gtttgaacaa ctctgtgtgca tgagaatgtc atttgctaata gaatttttaa 1080
agcatatata aaacaaaaca aacaacctgc cacaatgtga tatgtgtaat atcatttcat 1140
aaaaatccct cttcctccaa agcctgggca gaaatgtgct gcaaagagtt atatgacttc 1200
ttgttcatgt tttgctaatt ctctgtatctc cttgattaca taatgttagt agcactgaga 1260
ccccatggg aatgtaactt aattataagc tatgtcacta ccctcctgta aaatactatt 1320
ggacagacac agagggaccc ttggctcctg tgtctgggtc acacaccaca gaagcttgta 1380
ttatcagtga atataaatgt actacatttg catgcctttt gggtttgcct taattcttac 1440
ctcatttgca tcctatcgat ctggaaagag ctgttttggg tgaatgcagt ataaaatgta 1500
aaaaccctgc taaatgactt attgatataa tataatctatc tatatatata tatacacaaa 1560
gatattattt atcgaaagta aaaaagatgg aagtgtattg gtttctgttt gaattttcaa 1620
aggcttccaa tgtggtggca ataaatgtcc caataaaatt tataacaatt gattttcccc 1680
ctaattctta ttttataatt ttaaaattgc agcagttgct agcaacaact tactaaatct 1740
actcttaa atacaacttt ggaatttgaa gaattaatga caacaaaagg gaaaaaagca 1800
actttccaac ttttcatcca ggctcccaaa agagggacaa cgaacatggc atgtgaaaag 1860
taaaacagat ttgttcattc cgaaaaaaa atgttcattc tatgacaata aattttatct 1920
cagtgtgaaa nnnaaa 1936

```

<210> 42

<211> 6856

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 401746.2

<400> 42

```

aatacacccc gggcaggtgg agcgctcgcg gctgctcgcg gcgagccccg gagtgatggc 60
gaggccccctg cggcgggcca gcgcctgagg cgccccgccc cgcccgccc cgcgcgccc 120
tccccgccc cccctgccct gccctgtccc ctgcggcgcg ctgcggcgcg ttcctagtc 180
gctcgggcg cgcgccaggc gaggtgcggc ctccgcacag gccggggggc gtaggcgcgc 240
ggggcccgcc atggctgctg cggagctcta cacaagttt gccagggtt ggatacctga 300
tccagaggaa gtctggaagt cagcagagct gctcaaagat tataagccag gagataaagt 360
cctcctgctt cacctcgagg aaggaaagga tttggaatac catctagatc caaagaccaa 420
ggagctgcct cacttacgaa atcctgacat acttgttggg gaaaatgacc tcacagccct 480
cagctatctt catgagcctg ctgtgctcca taatctcaga gtccgcttta ttgattccaa 540
acttatttat acgtattgtg gtatagtcct agtagctata aatccctatg aacagctgcc 600
tatttatgga gaagatatta ttaatgcata cagtggtcag aacatgggtg atatggatcc 660
acatatcttt gcagtagctg aagaagctta caagcaaatg gccagagatg aacgaaatca 720
gtccatcatc gtaagtggag agtctggggc aggaaaaaca gtctcagcta agtatgccat 780
gcgatacttt gcaactgtga gtggttctgc cagtgaggcg aatgtggagg aaaaggtctt 840
ggcctccaac cccatcatgg agtccattgg aaatgctaaa acaaccagga atgataatag 900
cagccgtttt gggaagtata ttgagattgg ttttgataag agatatcgaa tcattgggtgc 960
caatatgaga acttatcttt tagagaaatc cagagtggta ttccaggcag aagaggagag 1020
aaactatcat atcttctatc agctttgtgc ctacgcaaag ttacctgaat ttaaaatgct 1080
acgattagga aatgcagata actttaatta cacaaaacaa ggaggcagtc ctgtgattga 1140
aggagtggat gatgcaaagg agatggcaca tactaggcag gcctgcactt tgctaggaat 1200
tagtgaatct catcaaatgg gaattttccg aatacttgct ggcatccttc acttaggcaa 1260

```

tggttgattt	acatcccgag	atgcagacag	ctgcacaata	cctcccaagc	atgaacctct	1320
ctgcatcttc	tgtgacctca	tgggtgtgga	ctatgaggag	atgtgtcact	ggctctgcca	1380
tcggaaactg	gctactgcca	cagagacata	catcaagccc	atctccaagc	tgcaggccac	1440
gaatgcccgc	gatgctttgg	ccaaacacat	ctatgccaaag	ctcttttaact	ggattgtaga	1500
taatgtcaat	caggetctcc	attctgctgt	caaacagcac	tctttttattg	gtgtgctaga	1560
catttacgga	tttgaaacat	ttgagataaa	tagttttgaa	cagttttgca	taaattatgc	1620
aaatgaaaaa	ctacagcaac	aattcaatat	gcatgtcttc	aaattggagc	aagaagaata	1680
tatgaaggaa	caaattccat	ggacactcat	agatttttat	gataatcagc	cttgtattaa	1740
tcttatagaa	tcaaaactag	gcattctaga	tttactggat	gaggaatgca	agatgcctaa	1800
aggcacagat	gacaactggg	ccccaaaaat	gtacaacaca	catttgaaca	aatgtgcact	1860
ctttgaaaag	cctcgtctat	caaacaaagc	tttcatcatc	caacattttg	ctgacaaagt	1920
ggaataccag	tgtgaaggat	ttctcgaaaa	gaataaagac	accgtttttg	aagaacaaat	1980
taaagtctct	aaatcaagca	agtttaagat	gtaccagaa	ctatttcaag	atgatgagaa	2040
ggccatcagt	ccaacttcag	ccacctcttc	agggcgacac	cccctcacac	gaactcctgc	2100
aaagcccacc	aaaggcagac	caggccaaat	ggccaaagag	cacaagaaaa	cagtggggca	2160
tcagttcaga	aactccctgc	acctgcttat	ggagacactc	aatgccacta	cccctcacta	2220
tgtgcgctgt	atcaagccta	atgacttcaa	gttcccattc	acgtttgatg	agaagagggc	2280
agtcagcagc	ctgagagcat	gtggtgtcct	ggaaaccatc	cgaatcagtg	cggccggttt	2340
cccctcacgg	tggactttacc	aagaattttt	cagccgtctac	cgtgtcctaa	tgaagcagaa	2400
agatgtgctg	agtgacagaa	agcaaactg	caagaatgtg	ttagagaaac	tgatactgga	2460
caaggacaaa	taccagtttg	gtaagacaaa	gatctttttc	cgtgccggtc	aagtggccta	2520
tctagaaaaa	ttgagagctg	acaaactgag	agctgcctgc	atccggatcc	agaagaccat	2580
ccgagggtgg	ctgctgagaa	agaagtacct	acgcatgcgg	aaggcagcca	tcaccatgca	2640
gagataccgt	cggggctacc	aggcccagtg	ctatgctaag	tttctgcgca	gaaccaaggc	2700
agcaaccatc	attcaaaagt	actggcgcat	gtatgtggtc	cgcaggaggt	acaagattag	2760
acgagctgcc	actattgttc	ttcagtttta	cttgcgaggc	ttcttggtcca	gaaataggta	2820
tcgcaagata	ctccgtgggc	acaaagcagt	catcattcag	aagcgagtcc	ggggctggct	2880
ggccccgcaca	cactacaaga	ggagcatgca	tgccatcatc	taccttcagt	gctgcttcag	2940
gcggtatgat	gccaaagcgtg	agctaaagaa	gctcaaaaatc	gaggctcgtc	cagtggagcg	3000
ctataagaag	ctgcgcatcg	gcatggagaa	caagatcatg	cagctgcagc	gcaaagttga	3060
tgagcagaac	aaagactaca	aatgccttgt	ggagaaacta	accaatctgg	aaggaatata	3120
caactctgag	actgagaaac	tacgaagtga	cttagaacgt	cttcaactaa	gtgaagagga	3180
agcgaaagtt	gccactgggc	gggtccttag	tctgcaggaa	gaaattgcca	agctccggaa	3240
agacctggag	caaactcggt	cagagaaaaa	atgcattgag	gaacatgcag	atcgatacaa	3300
acaagaaaaa	gagcagctgg	tatcaaactc	gaaggaagaa	aatactttgc	tgaagcaaga	3360
aaaagaagcc	ctcaatcacc	gcctcgtgca	gcaggctaag	gagatgcagc	aaactatgga	3420
gaagaagtta	gtagaagaaa	cgaacaactc	ggaaactcgac	cttaatgatg	aaaggctgag	3480
atatcagaac	cttctgaatg	agttcagtcg	cctggaagaa	agatatgatg	acctcaagga	3540
agagatgacc	cttatgggtc	atgtgcctaa	gcctggacac	aagagaacag	actccacca	3600
cagcagcaac	gagtctgaat	atatcttttag	ctctgaaatt	gcagaaatgg	aagacattcc	3660
atcaaggaca	gaggaacca	gtgagaagaa	ggtacctctg	gacatgtcat	tgttccttaa	3720
gctccagaag	cgggtcacag	agctggagca	ggagaagcag	gtgatgcagg	atgagctgga	3780
ccgcagagag	gagcaggtgc	tccgcagcaa	ggcgaaggaa	gaagaaagac	cacaatttag	3840
aggtgcagaa	ctggaatatg	agtcactcaa	gcgtcaagaa	ctagaatcag	aaaacaaaaa	3900
actgaagaat	gagctaaatg	agttgcgcaa	ggccctcagt	gagaaaagtg	ccccagaggt	3960
gaccgccccca	ggtgcacctg	cctactgtgt	cctcatggag	cagctgacct	ctgtgagcga	4020
ggagctttgat	gtccgcaagg	aggaagtcc	catcttaagg	tctcaactgg	tgagccagaa	4080
agaggccatc	caaccaagg	atgacaagaa	tacaatgaca	gattccacaa	tacttttggga	4140
agatgtacaa	aaaatgaaa	ataaagggtga	aatagcacia	gcatacattg	gtttgaaaga	4200
aacaaataga	tcatctgctc	tggattacca	tgagttgaat	gaggatggag	agctgtggct	4260
ggtttatgaa	gggttaaaac	aagccaatag	gctcctggaa	tcccagctgc	agtcacagaa	4320
gaggagccat	gagaatgagg	ccgaggccct	ccgtggggag	atccagagcc	tgaaggagga	4380
gaacaaccga	cagcagcagc	tgctggcccc	gaacctgcag	ctgccccccag	aggccccgat	4440
tgaggccagc	ctgcagcacg	agatcacccg	ctgaccaaac	gaaaacttgg	atttgatgga	4500
acaacttgaa	aaacaggata	agacggtccg	taaactgaaa	aaacaactga	aagtatttgc	4560
caaaaaaatt	ggcgaactag	aagtgggcca	gatggagaa	atatccccag	gacagatcat	4620
tgatgaaccc	atccgaccag	tcaacattcc	caggaaagaa	aaggatttcc	aagggatgct	4680
ggaatacaag	aaggaggatg	agcaaaaaact	tgtaagaac	ctgattctgg	aactgaagcc	4740
acgtggtgta	gcagtcaatt	tgattccagg	attaccggca	tatatcctgt	tcatgtgtgt	4800
tcgacatgct	gactacctga	atgatgatca	gaaagtaagg	tcgttgctaa	catcaacaat	4860
taacagcagc	aaaaaagtat	tgaagaaaag	aggtgatgat	tttgaaaccg	tctccttctg	4920

```

gctctctaac acatgccgat ttttgcactg cttgaaacag tacagtggag aagagggcctt 4980
tatgaagcac aacacatctc gccagaatga acactgcctc accaattttg acctggcctga 5040
gtatcggcag gtgctgagtg acttggccat tcagatctac cagcagctcg tgcgggtgtt 5100
agagaacatc cttcagccaa tgattgtctc aggcattgctg gaacatgaaa cgattcagggt 5160
cgtgtctggg gtgaagccca cagggttgag aaagcgaacc tccagtatcg ccgacgagggt 5220
cacctacaca ctggactcca tcctccggca gctcaactcc ttccactcgg tcatgtgtca 5280
gcatggcatg gaccctgaac tgatcaagca ggtgggtcaag cagatgttct acatcatagg 5340
ggccatcacc ctgaacaacc ttctcctgcg gaaggacatg tgctcctgga gtaaaggcat 5400
gcagatcagg tacaatgtca gtcaactgga agaattggctg cgtgacaaga atctgatgaa 5460
tagtggggct aaagaaaccc tggaaacctct cattcaggct gctcaacttt tgcaagtga 5520
aaagaaaaca gatgatgatg cagaagccat ttgttctatg tgcaatgctt taactactgc 5580
ccagattgtg aaagtgttga atttgtatac tccagttaat gagtttgaag aaagagctctc 5640
tgtgtcgttc attcgtacta tacagatgcg tttacgagac aggaaagact ctccccagct 5700
gctcatggat gctaaacaca tctttcctgt cacctttcct ttcaacccat ctccctcgc 5760
actagaaacc atccagatcc cagccagcct cggcctgggc ttcatttcac ggggtctgaaa 5820
gtgatgtcca ggcaaaaatt gacaatacat ttcttgcccg aaataagaac ccattatttc 5880
cagtgaagta ctgaaaatac attttttaag agaaagtact gattatctcc caaatgagaa 5940
gtcattaaat ggaaatctcc ctagaatact tcatcactt tggaacaaaa gataggctct 6000
ttcgtgctgt gttatcttta tagcaacact catccttaac caactaggta ccgtgagttt 6060
acatacagga gaatgatgga aggaagggag gaaggaaaag aggagaaaaa tgtgtcttca 6120
gctggcagca tttattttta atccttagca ctgagtttga atggtataaa aagtataact 6180
tccatagatg agctgttgtt aggaaggcac caaagaacct cctctgcact aaacaggaga 6240
atggaaagaa aagtctccat tgagtacata tcatgtcagt ttagtaatca attatgttga 6300
tattgtttaa ctggttcaaa gaaataaact ggcaatatgt aaagtaattc ctcatttgtg 6360
tcactatgat atagagatat taaaggaatg ttggtttgct aaatagtata gatgtccatt 6420
tgtactatag tttactgagc attttaaaat gctgtacat actgtcttct taaaatgtaa 6480
gtgatattag gcactacaat aagtttctct tgtcaattct gtttacaatt caatcagatc 6540
acagttttta ctggattata tgcaaatacc tacagattca cctgcacaag tagcagacac 6600
tggaagtca ttagtaata tgacaaaatg cttgacattt aggggtagga ttagacaaag 6660
tggctattgt tgatgtcatt atttattcag gatgtattac attgatgtgc tcattaattt 6720
tccttgggtg gaaattgcgt cagggtacag tgttctgtga agtgacttat ttttaactac 6780
cagatctgat tccttcagtg catattttca accttgacag gttttctctc ttcttaattt 6840
attaagaatt aatctc                                     6856

```

<210> 43

<211> 2834

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 001697.5

<400> 43

```

cacacaggac agaggtcagc tgacaatcct gggacctcag gatccatgct ctcccagagg 60
acgcctctca cacacatggg tcggcagtca tgttacactc ccaggggcat tctcaccctg 120
cggacagtggt aagcccttca gggggtgcag aacagagtgc tgcaggagag agagggcgct 180
ggctgggtgcg aagccgtccg aggtgcagca cagcccacaa ggcccgcag tgtctttccc 240
gaggacacgc gaatcctggg gggctcactc cggcaaagag gacgagacac tgcaccaagg 300
acagggcctg acctctctgg ccgccttccc cggggcctca gtttcccccg atggtgagag 360
tggagccgac catgcgccct gctgtggact caccggcgcg cctggcgctg agtggcggtg 420
gagacctgac agacagcgtg ggaaaaatca agatgtctgc agatttcgag agatgggggtg 480
cggtggcggtg cgctggcggt ggcgaggag agggagcagc gtcacggggc cccggccctg 540
taaaacgctg ctggctggag ccacctccct cctgcagcc cgcaacggga atggagtaaa 600
gggagacctg tcgacctggc caggggagtc agcgtggaa ttaaagcaat ctttgtccac 660
ccatctggaa gccgagaagc ctctgaggcg ctatggggcg gtggaggaga cggcttgtaa 720
aacggagaga ctggggagaa atcagctgga catcatctcc atggcggaga caaccatgat 780
gccagaggag attgagctgg agatggcaaa aattcagcgt ctccgggaag tcttgggtccg 840
ccgggagttc gagctcaggt tcatgatgga tgacatccag ctctgcaagg acatcatgga 900
cttgaagcag gagctgcaga acttggctcg catcccagaa aaagaaaaaa ccaaactgca 960
gaagcagaga gaggatgagc taatccagaa gatccacaaa ctggtgcaga agagagactt 1020

```

```

cctggtggac gatgcggagg tgcagcgggtt aagggagcaa gaagaagaca aggaaatggc 1080
tgatttctctg agaatcaagt taaaacctct agacaaagta accaaatctc cagccagctc 1140
ccgggacagag aagaaagcag agccccacc tagcaagccc acggtggcca agacggggct 1200
ggcattgatc aaggattgtt gcggggccac ccagtgaac atcatgtagc cccacgtgg 1260
ggtgccctgg gccatgggga cccccccca cctcttgtc tttatagccc ccatttcacc 1320
ggggcccaag agctctccaa ggcagaaggg gttgaaggca agcccgtgac tgtcaccaga 1380
ggccatgggc acggcaggcg ggccctggca cctgtacag agtgtagcag tagggagtct 1440
ctcaccgtcg catggtcctc cccagagcat gccgaacca ggagtctgtc tctactgttta 1500
tccaaacacc aggaaaggtc ctccctcaaa aaagcatatc tccacttctc tctagctgta 1560
tctaaccacac cgtgtgaatg aactgggaga ggggcatgct cccagctgt gtgtagtcgt 1620
gacttctcaa caatctagca ccatgtcgga caggttcccc atccaccctc ctagctctgc 1680
tctcagagct aggcacatgg gcacaggtec cctccgtct gtctctctcc agcaactgtg 1740
ccctggaggg ctccacatgg ccccctgtc tctcgggcac caccatata gcagtcccag 1800
agggcccatc tgtaaagatc gagcttgtgt gtggtgtcgt ggtcacatct cccgttctcc 1860
cccatcctgt gtctgggcac agttcacatc aggacagcgt ccattgtgct ctcagtctgc 1920
ctcagggtgtg tgccctggagg gggcctggac tggcatggat ccagtgtgca gaagagccag 1980
cagggaaaccg gaagctctga tgtcaaggcc agagcagttg agaatgggac ccagagtaga 2040
tgctgacctg ggcactccac cattccgggg ccaccacaga gatgccagca ggatgccact 2100
ttgccagccc gacacacgga cctttgtaaa gaacagcaac aggcaggaga ggcagcgtgt 2160
gaccagattg tgtcccgctc ttgggtggca tatgttaact agctgccaaa caacttcaac 2220
ccgtgtaatt catgtacatt tgcaacagcc agcccggtag agcctgtgtg acttctctgt 2280
atgtgtgtgt gtgtcgtgac cagcctaagt agttagcata actcaagatg ctgatgtgca 2340
gtcacccatc agagaaaata aaaatggaaa ccacgttca agcattttta aagtttttac 2400
ttttttctt gattatggaa gtaatccatg tacatagtaa atcattttta aagtacaaaa 2460
agtatgaaga agtttgtctt aaaaaaaaaa aaattattcc tccaactaga gaccactctg 2520
atgtttcgac gttttaaaaa agtctttttt tgtgcatttt ttcatcgttg acatcatatt 2580
gtgatatacat ttataaccag ttttttctc cttattatac caccatcttc cacatcatta 2640
aaagctcttt gtaaacatta aacactcttc ataaatcatg ccaatgtctg ttagtaatc 2700
catcttgtgg atgtactgta attcatctaa tcatttctc actattggat gtgtagactg 2760
gttctagggt ttcttataaa tagtgtcttg gattagccag gcatggtaat ggtgacctgt 2820
aatcccagct actt 2834

```

<210> 44

<211> 8050

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 979567.11

<220>

<221> unsure

<222> 3498, 5122, 8041, 8043

<223> a, t, c, g, or other

<400> 44

```

ggagtagctg tcggagatcc gctcgcgcgc cgaaggttat gagaagacag atgatgtttc 60
agagaagacc tctactggctg accaggagga agtaaggact attttcatca accagcccca 120
gctgacaaaa ttctgcaata accatgtcag cactgcaaaa tacaacataa tcacattcct 180
tccaagattt ctctactctc agttcagaag agctgctaata tcatTTTTTt tctttattgc 240
actgctgcag caaataacctg atgtgtcacc aacaggctcg tatacaacac tggttcctct 300
cttattttatt ttagctgtgg cagctatcaa agagataata gaagatatta aacgacataa 360
agctgataat gcagtgaaca agaaacaaac gcaagttttg agaaatgggt cttgggaaat 420
tgtccactgg gaaaagggtg cagtagggga gatagtgaag gtgaccaatg gggaacatct 480
cccagcagat ctcatcagtc tgtcctcaag tgagcccaaa gccatgtgct acattgaaac 540
atccaactta gatggtgaaa caaacttgaa aattagacag ggcttaccag caacatcaga 600
tatcaaagac gttgacagtc tgatgaggat ctctggcaga attgagtgtg aaagtccaaa 660
cagacatctt ctacgatttt gttggaaaca taaggcttga tggacatggc accgttccac 720
tgggagcaga tcagattctt cttcgaggag ctcagttgag aaatacacag tgggttcatg 780
gaatagttgt ctacactgga catgacacca agctgatgca gaattcaaca agtccaccac 840

```

ttaagctctc	aaatgtggaa	cggattacaa	atgtacaaat	tttgatttta	ttttgtatct	900
taattgccat	gtctcttgtc	tgttctgtgg	gctcagccat	ttggaatcga	aggcattctg	960
gaaaagactg	gtatctcaat	ctaaactatg	gtggcgctag	taatttttga	ctgaatttct	1020
tgaccttcat	catccttttc	aacaatctca	tccctatcag	cttattgggt	acattagaag	1080
ttgtgaaatt	tacccaggca	tacttcataa	attgggatct	tgacatgcac	tatgaaccca	1140
cagacactgc	tgctatggct	cgaacatcta	atctgaatga	ggaacttggc	cagggttaaat	1200
acataatttc	tgacaaaact	ggtactctga	catgcaatgt	aatgcagttt	aagaagtgc	1260
ccatagcggg	agttgcttat	ggccatgtcc	ctgaacctga	ggattatggc	tgctctcctg	1320
atgaatggca	gaactcacag	tttggagatg	aaaaaacatt	tagtgattca	tcattgctgg	1380
aaaatctcca	aaataatcat	ccaactgcac	ctataatatg	tgaatttctt	acaatgatgg	1440
cagtctgtca	cacagcagtg	ccagagcgag	aaggtgacaa	gattatttat	caagcagcat	1500
ctccagatga	gggagcattg	gtcagagcag	ccaagcaatt	gaattttgtt	ttcactggaa	1560
gaacacccga	ctcgggtgatt	atagattcac	tggggcagga	agaaagatat	gaattgctca	1620
atgtcttgga	gtttaccagt	gctaggaaaa	gaatgtcagt	gattgttcgc	actccatctg	1680
gaaagttacg	actctactgc	aaaggagctg	acactgtaat	ttatgatcga	ctggcagaga	1740
cgtcaaaaata	caaagaaatt	accctaaaac	atntagagca	gtttgctaca	gaagggttaa	1800
gaactttatg	ttttgctgtg	gctgagattt	cagagagcga	ctttcaggag	tgccgagcag	1860
tctatcagcg	agcatctaca	tctgtgcaga	acaggctact	caaactcgaa	gagagttatg	1920
agttgattga	aaagaatctt	cagctacttg	gagcaacagc	cattgaggat	aaattacaag	1980
atcaagtgcc	tgaaccata	gaaacgctaa	tgaagcaga	catcaaaatc	tggatcctta	2040
caggggacaa	gcaagaaact	gccattaaca	tccgacactc	ctgcaaactg	ttgaagaaga	2100
acatgggaat	gattgtttata	aatgaaggct	ctcttgatgg	aacaagggaa	actctcagtc	2160
gtcactgtac	tacccttggt	gatgctctcc	ggaaagagaa	tgatttttgt	cttataattg	2220
atgggaaaac	cctcaaatat	gccttaacct	ttggagtacg	acagtatttc	ctggacttag	2280
ctttgtcatg	caaagctgtc	atlttgctgtc	gggtttctcc	tcttcaaaaa	tctgaagtgt	2340
tgagatgggt	aagaaacaag	tcaaagtcgt	aacgcttgca	atcgggtgatg	gagcaaatga	2400
tgtcagcatg	atacagacag	cgcacgttgg	tgttggatc	agtggcaatg	aaggcctgca	2460
ggcagctaat	tctctgact	actccatagc	tcagttcaaa	tatttgaaga	atltactgat	2520
gattcatggt	gcctggaact	ataacagagt	ctccaagtgc	atcttatact	gcttctacaa	2580
gaatatagtg	ctctatatga	tcgagatctg	gtttgccttt	gttaatggct	ttctggaca	2640
gatactctct	gaaagattgg	gtataggtct	ctataacgtg	atgtttacag	caatgcctcc	2700
tttaactctt	ggaatatattg	agagatcatg	cagaaaagag	aacatgttga	agtaccctga	2760
attatacaaa	acatctcaga	atgccctgga	cttcaacacc	aagggtttct	gggttcattg	2820
tttaaatggc	ctcttccact	cagttattct	gttttggttt	ccactaaaag	cccttcagta	2880
tggtactgca	tttggaaatg	ggaaaacctc	ggattatctg	ctactgggaa	acttttgtga	2940
cacttttgctg	gtgataactg	tgtgtttgaa	agctggattg	gagacatcat	attggacatg	3000
gttcaggcac	atagcgatat	gggggagcag	cgcactctgg	gtgggtgttt	ttggaatcta	3060
ctcatctctg	tgccctgcca	ttccgatggc	ccctgatatg	tcaggagagg	cagccatggt	3120
gttcagttct	ggagtctttt	ggatgggctt	gttattcctc	cctgtggcat	ctctgctcct	3180
tgatgtgggtg	tacaagggtta	tcaagaggac	tgctttttaa	acattgggtcg	atgaagttca	3240
ggagctggag	gcaaaatctc	aagaccaggg	agcagttgta	cttggaaaaa	gcctgaccga	3300
gagggcgcaa	ctgctcaaga	acgtctttaa	gaagaaacc	gtgaacttgt	accgctctga	3360
atccttgcaa	caaaatctgc	tccatgggta	tgcgttctct	caagatgaaa	atggactcgt	3420
ttcacagtct	gaagtgataa	gagcatatga	taccacgaaa	cagaggcccg	acgaatgggtg	3480
atggggagat	cctgaaangc	aggctctggt	acctctctaa	ggagagctac	caggttgtca	3540
cgcagctctg	ctaaccaatt	ccagtctggt	ccatgaagag	gaaaggtaga	tctgagctca	3600
tctcgtgat	ggacattcag	attcatgtat	attatagaca	taagcactgt	gcaactgtac	3660
tgtaacacca	tctcttttgg	atlttttttaa	ggatlttgtt	aagtctttgt	aaacggaaat	3720
tgaaaatgac	ctggatatctt	gccagagggc	tttctttaa	ggagaataag	tcagtattct	3780
tatgccatta	ctgtggggct	gtaactgact	gtcagtttat	tggtgttacc	acaaggtaac	3840
caaccattaa	aaaactctaa	agtataaatt	tagttaaagg	gactcttggt	atccagactt	3900
agatttcagg	atatgctgaa	acaaaccagc	attcttaagg	aactgactca	cctttcctgg	3960
accaaataat	ctaaacaagc	atltgtgtcc	aaaattgtct	tgataaatgt	ttgccaaaga	4020
ggttcagtaa	gtgtttttct	agttcagtag	tcataagccc	agaaatgtaa	gagaaagttt	4080
acttccagtt	cgcgtgtaag	atctgcctgc	ctgactttcc	aaatgtaaga	gtgattttaca	4140
aaaatgaata	tttcaaggca	tttgctacta	aaatcggtga	tggtgcacct	ttggccttac	4200
aaatgcttct	ttgttgtttg	tcgtgtttat	ttgttagagg	acacacgtgt	taatgtgact	4260
ctgttggtat	gacactgatt	tttcaaacta	tgtatgtttc	agggtatttct	gatgaagttt	4320
catcatcatt	tagatttttc	taaaaaatctg	gctaattgcag	tagattgagt	gatgtcattt	4380
tgtcttaag	tttttctct	taagaaacat	atgctaacga	tttacgtggg	atltccaaag	4440
cttctgttgc	aatattttgga	ataacatgct	agataaatgc	atgggctttt	gtcctgtggt	4500

```

ccagttccca ctagagatgc ctgtgtcttg tgtagcacac ccagtggttat ggtgactgcc 4560
ccctatactg aagactgaaa attatttcac agttcactca tcaaatagtt cccaaaattc 4620
gtcacatgct gcttattggg acaaataggt agtacatttt ccccatTTta aaaatgcgga 4680
ttttactcag gccggttaact ttacagtcag aggacacggt catcatgagt agcttttTgt 4740
agtatgtttt aaaatgtatc ttcagttcaa ttattttcag catttacaag acatctgaaa 4800
atggctatTTt tgctaccaac agtaaatgaa ggggctgttt aaaaaccaca accagttttc 4860
tacactatTTt tttaaataat actttcattt gaaaaaaagg aattagtttt cagatacact 4920
tcagagattg aagcaaacta tttgcctttt actcaaaagc ctgcttgccT ttacatggac 4980
ttaccagcaa aataggtaga actttctctt ttaaaaaaag tcaactagaa ttgagaagag 5040
gtgattttttt ttCagatcgc ttctcgagtt taatattttc acattctttt cacccttttt 5100
ctcaatctag atttaaaatt anggatatat gtcatttccT tgtctgtatt tgtagctcct 5160
tagttaccag tatgcctctc cattttctac aaataagagg ttataacaca tatacataat 5220
tctaaccTTa agggaacaca cgttttacata ctttacttcc caagcccttc ctgtttgggg 5280
tacagattga gagagtcagT aatcaacaca tctagcaaga ccacaggtgt aagagtctaa 5340
gatcgtcttc aaaattctga agtcccagtc tttacctgtc cagtgaatga atattcagag 5400
cagctttttcc tggggcttcc cagtgggtgat agctgagggtc aaaccacaaa aaataagaaa 5460
gcaagagtga aatgcacccc tccagagaaa cactttgtag tgtttaattc tgTTaataga 5520
gaagagctgc ttctgtttgc gctcacttca tcagtggcac ccttctgcag aattttaata 5580
taaaaacatt atggatataa tagaactgga tttctgact taaaaatgta agttttattt 5640
taatcttgaa acgtggattg tttctgtgga gctcttaaac atgagaagaa tacttacggt 5700
tgataatgtg taacatgatc tgaaatgtga ctcatTTgag cctctttgtc ccatcgctcct 5760
gtttttgaat tattgacatt gtcagTctct ttgcttccTg ggtgagactt ggggtttgag 5820
ggacagggaa tgaccttctt ggtgaaactt aaaatataac attgcaattg cagtgacttt 5880
acagtgttaa attagagaaa atagtctgat tttttaaacc ttcttTaat ggaaaaaagt 5940
cacatggTTt taccaggatt gaaataaaca gtcaatgtga cttttaacat gtgttttttt 6000
gaaataaagg gcacgtactc ttcaattaaa aagttccTta tagggactct ggcaaTgct 6060
aacacagttg ctttacaatg tttacaattc agacaatacg acttataata gaaaatcctc 6120
attcattttag cattgaaaag ctggaagttg cttctttTaat gttgaatagt atacagtggt 6180
attgagcatg gacttttctaa atgtttttata tatacatata aaaatatatt ggtgtctcac 6240
accagaaaag atgttatatt gtagatatta ttaggaaaaa acagtgtttc tcaggaacgt 6300
tgtaaaatttt aaatgatata tgtacttccc gtccctccac ctccactctg tgctctaattg 6360
tgagactgct tcagcagTgt tgctaagtta atggaaaact ttttctaate aagtcagggtg 6420
aatgtgtatt ctgctaaata atgttagcca tttacatgaa ttgtatggTc attaaatgga 6480
atcagtgatt cctctttTaat ttccagaggg gaaatgaatt atggaaatca gtcagcattc 6540
tgatcattaa atttttatact ttaattttTgc cgttcagcat tctaaatate caatgtgaaa 6600
gtcacatgat aatttgTTTT gcattgcgtg cactgtacaa cacttacaac ttgtcattta 6660
aaatgtttttc tcgggaaatg aatgctagtc agaaagtaat agattgtatt attcTaatg 6720
ttaaaattat gacaatgtca taattactac aaagctaaat aatcgtgttt atttttgtgc 6780
agttgccctt tgatagtTcc tggttttTaaa acctattaag tgtataatct taaaaatagt 6840
catctacaaa atttatggag aaagtgcCCA gccattcac atcacatgga ccaggaattc 6900
ttttgtaaat gacttaaggt aacatcatgc agttcagTgc ctaataaatg cttttTaatg 6960
atgagcattt ctataatgac tcgtaagata ccatagtctg attttttctc cattaaaata 7020
actgaagtca cttgtgtaac gtagtTatac tttgtcgcTt tttaatTaac cttcaacagc 7080
tattaaagtg gaatgtaagt taaattttTga aggaaaggaa ataaatgttt tccatatttc 7140
gtcttgattt actttctgta tgagaacagc tgtgtttttg ataggttttat ggtttgcatg 7200
agttcatatt taaagtgatc caggccaatg catggctatt gctgtaaatc ttgatgttta 7260
tttctgcctt gtaaagtTct atcacggcct acctggaatt taaaattcag tagacaaatt 7320
aattggTcct ctgcacaact tttttTaaa gtagattatt ttacaaagaa atttgaacaa 7380
atttaattga atcttttTgt tagcttgccT ctaagaactt ttcttaataa agctcccaaa 7440
acttctcagc aaataaaTct cccttaagta ggaaaactag atttcatatt tgcttacttt 7500
gaattaacag caactttcca caggtaaate tgttcttgca aagatgtgag cagaatagtT 7560
aaaaataata tttttatgtt tcatgtttct aaatggaagc cataaatgca gtaaatacta 7620
tctgttgTtt aactacttta atcgtcattt tttacatttt caagttttatt aggttaagaa 7680
aaacagggga gccttggaag gcagctacta cagtaaaactg cagtttttgcg ttaaagataa 7740
agtagtattt tcagctccct tcaagaaecat tctgtctgaa actgctgtag aaattgtgaa 7800
gctgcatgag tggagagtat tgaatctgtg gttatagtag ttttctcagg tttgtttatc 7860
ttgatgtttg atgcactgtg ttttatagtt attaaaattg agtaatatta tttctatgca 7920
gtgttatgtg tcaatggcct tttgtgaatg tgcatgtttt aaactgcaaa ttttaacat 7980
tttgtcctct aattgtttatt aaaaatgaaa taaactttac cattactcaa aaaaaaaaaa 8040
nangggcggc 8050

```

PA-0024 US

<210> 45
<211> 9610
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 996794.11

<400> 45
gaaagcgcac gccgagagga ggtgtgggtg ttccgcttcc atcctaacgg aacgagctcc 60
ctcttcgcgg acatgggatt acccagcggc tgctaaccac tctcctcgcc ctgctcccc 120
aaaccggcgt ggctccccgg gcaccaagga gctgactaca gaggagcagg atttgacccc 180
ctcgctgggc ttgctttggc aacagagtgc ctgaccagg tcaggatttt caagaaagac 240
atgtctgaca aaatgtctag ctctctacat attggagaca tttgttctct gtacgcggag 300
ggatcgacaa atggatttat tagcaccttg ggctgggtg atgatcgttg tgttgtacag 360
ccagaaaccg gggaccttaa caatccacct aagaaattca gagactgcct cttaagcta 420
tgtccatga accgtactc tgcccaaaag cagttctgga aagccgctaa gcctggggcc 480
aacagcacca cagacgcagt gctactcaac aaactgcacc acgctgcaga cttggaaaag 540
aagcagaatg agacagaaaa caggaaattg ctggggaccg taatccagta tggcaatgtg 600
atccagctcc tgcatttgaa aagtaataaa tacctaacag tgaataagag gcttctgtct 660
ctgttgagga agaattgccat gagagtcaca ttggacgagg ctggaaatga agggctcctg 720
ttttatatcc agccattcta caagctgcga tccattggag acagcgtggt cataggtgac 780
aagggtggtt tgaacccgt caatgctggt cagccccctac atgctagcag ccatcaactg 840
gtagataaac caggctgcaa tgaggtcaat tccgtcaact gcaatacaag ctggaaaata 900
gtccttttca tgaatggag tgataacaaa gacgacatat taaagggggg tgacgtggtg 960
aggctgtttc atgctgagca ggagaagttt ctccctgtg acgaacacag gaagaagcag 1020
cacgtcttcc tgagaaccac gggccggcag tggccacat ctgccaccag ttcaaaagcc 1080
ctgtgggagg tggaggtggt ccagcatgac ccattgtcgg gcgagcagg gtattggaac 1140
agccttttcc gtttcaagca tctggccacg gggcattact tggcagcaga ggtggacct 1200
gatcaggacg cctctcgaag taggttgcgg aatgccccaa aaaagatggt atactccctg 1260
gtctctgtgc ctgaaggcaa tgacatctcc tccattttcg agctagatcc caccactctg 1320
cgtggagggt acagccttgt cccaaggaac tcttatgttc ggctcagaca cctatgtact 1380
aatacctggg ttcacagcac aaatatctct attgacaagg aagaagaaaa gcccgatg 1440
ctgaaaattg gcacctctcc tgtgaaggag gataaggaag catttgccat agttccggtt 1500
tctcctgtct aagttcggga cctggacttt gccaatgat ccagcaagg gctgggctcc 1560
attgtgggga agctagagaa gggcaccatc acccagaatg aaaggaggtc tgtaaccaag 1620
ctgctagaag atttggttta ctctgtcact ggtggaacta attctggtca agatgttctc 1680
gaagttgtct tctccaagcc caacagagaa cggcagaaac tgatgagaga acagaatatt 1740
ctcaagcaga tcttcaagtt gttacaagcc ccattcacag actgcggtga tggcccaatg 1800
cttcggctgg aagagctcgg ggaccagcgg cacgctcctt tcagacacat ctgccggtc 1860
tgctacaggg tgctgagaca ctgcagcaa gactacagga agaaccagga gtatatagcc 1920
aagcagtttg actatgata gaagcagatt gcttatgat tgttggctga agacactatc 1980
actgccctgc tccacaataa tcggaaactc ctggaaaaac acattaccgc ggcagagatt 2040
gacacatttg tcagcctggt gcgaaagaac agggagccca gattcttaga ttacctctcc 2100
gacctctgtg tctccatgaa caaatcaatt ccagtgaccc aggaactgat atgtaaagct 2160
gtgctgaacc ccaccaacgc tgacatcctg attgagacca agttggttct ttctcgtttt 2220
gaatttgaag gtgtctcttc cactggagag aatgctctgg aggcaggaga agacagggaa 2280
gaggtgtggc tgttttggag ggacagcaac aaagagattc gcagcaagag tgtgagggaa 2340
ttggctcagg atgctaaaga agggcagaag gaggaccgag acgttctcag ctactacaga 2400
tatcagctga acctctttgc gaggatgtgt ctggaccgcc aatacctggc catcaacgaa 2460
atctcaggcc agctggatgt cgatctcatt ctccgctgca tgtctgacga gaacctgccc 2520
tatgacctca gggcgtcctt ctgccgcctc atgcttcaca tgcatgtgga ccgagatccc 2580
caggaacaa gtcacccccg gaaatatgcc cgcctctggt cggagattcc ctccggagatc 2640
gccatttgag actatgatag tagtggagct tccaaagatg aaattaagga gagatttgc 2700
cagaccatgg agtttgtgga ggagtattta agagatgtgg tttgtcagag gttcccttcc 2760
tctgataaag agaagaataa gcttacgttt gaggttgtaa atttagctag gaatctcata 2820
tactttggtt tctacaactt ctctgacct ctccgattaa ctaagatcct tctggccata 2880
ttggactgtg tacatgtgac aacaatcttc cccattagca agatggcgaa aggagaagag 2940
aataaaggca gtaacgtgat gagatctatt catggcgtgg gagagctgat gaccagggtg 3000
gtgctccggg gaggagctt tttgccatgg actcccatgg ctgctgcccc tgaaggcaat 3060

gtgaagcagg	cagagcctga	gaaggaggac	atcatggtca	tggacaccaa	gctgaagatc	3120
attgagatac	tccagtttat	tttgaatgtg	aggttggatt	ataggatctc	ctgcctcctg	3180
tgtatatatta	agcgagagtt	tgatgaaagc	aattcccaga	cttcagaaac	atcctccgga	3240
aacagcagcc	aagaagggcc	aagtaatgta	ccaggtgctc	ttgactttga	acacattgaa	3300
gaacaagcag	aaggcatctt	tggaggaagt	gaggagaaca	ccccactgga	cttggatgac	3360
cacggcgcca	gaacctttct	ccgtgtcctg	ctccacttga	cgatgcatga	ctaccacccc	3420
ctggtgtcag	gggcccctgca	gctcctcttc	cggcacttca	gccagaggca	ggaggtgctc	3480
caggccttca	aacaggttca	actgctgggt	accagccaag	atgtggacaa	ctacaaacag	3540
atcaaacaag	acttggatca	actgaggtcc	atcgtggaaa	agtcagagct	ttgggtgtac	3600
aaagggcagg	gccccgatga	gactatggat	ggtgcatctg	gagaaaatga	acataagaaa	3660
acggaggagg	gaaataacaa	gccacaaaag	catgaaagca	ccagcagcta	caactacaga	3720
gtggtcaaaag	agattttgat	tcggcttagc	aaactctgtg	ttcaagagag	tgccctcagt	3780
agaaagagca	ggaagcagca	acagcgtctg	ctccggaaca	tgggcgcgca	cgccgtggtg	3840
ctggagctgc	tgcagattcc	ctatgagaag	gccgaagata	ccaagatgca	agagataatg	3900
aggttggctc	atgaattttt	gcagaatttc	tgcgcaggca	accagcagaa	tcaagctttg	3960
ctacataaac	acataaacct	gtttctcaac	ccagggatcc	tggaggcagt	aaccatgcag	4020
cacatcttca	tgaacaattt	ccagctttgc	agtgagatca	acgagagagt	tgttcagcac	4080
ttcgttcaact	gcataagac	tcacggctcg	aatgtccagt	atataaagtt	cttacagaca	4140
attgtcaagg	cagaagggaa	atltattaaa	aaatgccaa	acatggttat	ggccgagctg	4200
gtcaattcgg	gagaggatgt	cctcgtgttc	tacaacgaca	gagcctcttt	ccagactctg	4260
atccagatga	tgcggtcaga	acgggatcgg	atggatgaga	acagccctct	catgtaccac	4320
atccacttgg	tcgagctcct	ggctgtgtgc	acggagggtg	agaatgtcta	cacagagatc	4380
aagtgcaact	ccctgtctcc	gctggatgac	atcgttcgcg	tggtgacca	cgaggactgc	4440
atccctgagg	ttaaaattgc	atacattaac	ttcctgaatt	actgctatgt	ggatacagag	4500
gtggaaatga	aggagattta	taccagcaat	cacatgtgga	aattgtttga	gaatttcctt	4560
gtagacatct	gcagggcctg	taacaacact	agtgcagga	aacatgcaga	ctcgattttg	4620
gagaagtatg	tcaccgaaat	cgctcatgag	attgttacta	ctttcttcag	ctctcccttc	4680
tcagaccaga	gtacgacttt	gcagactcgc	cagcctgtct	ttgtgcaact	gctgcaaggc	4740
gtgttcagg	tttaccactg	caactggtta	atgccaaagc	aaaaagcctc	cgtggagagc	4800
tgtattcggg	tgctgtctga	tgtagccaa	agccgggcca	ttgccattcc	cgtggacatg	4860
gacagccaag	tcaacaacct	ctttctcaag	ttccacagca	ttgtgcagaa	aacagccatg	4920
aactggcggc	tctcagcccc	caatgccgca	cgcagggact	ctgttctggc	agcttccaga	4980
gactaccgga	atatcattga	gagattgcag	gacatcgtct	ccgcgctgga	ggaccgtctc	5040
aggccccctg	tgcaggcaga	gttatctgtg	ctcgtggatg	ttctccacag	acccgagctg	5100
cttttcccag	agaacacaga	cgccagaagg	aaatgtgaaa	gtggcggttt	catttgcaag	5160
ttaataaagc	atacaaaa	gctgctagaa	gaaaatgaag	agaagctctg	cattaaggtc	5220
ctacagacccc	tgagggaat	gatgacaaa	atggagggt	atggagaaaa	gggtgaggcg	5280
ctcaggcaag	ttctggtcaa	ccgttactat	ggaaacgtca	gaccttcggg	acgaagagag	5340
agccttacca	gctttggcaa	tggcccactg	tcagcaggag	gacccggcaa	gcccggggga	5400
ggagggggag	gttcgggatc	cagctctatg	agcaggggtg	agatgagtct	ggccgaggtt	5460
cagtgtcacc	ttgacaagga	gggggcttcc	aatctagtta	tcgacctcat	catgaacgca	5520
tccagtgacc	gagtgttcca	tgaagcatt	ctcctggcca	ttgcccttct	ggaaggaggc	5580
aacaccacca	tcagcactc	cttttctgt	cgcttgacag	aagataagaa	gtcacagaaa	5640
ttctttaagg	tgttttatga	ccggatgaag	gtggcccagc	aagaaatcaa	agcaacagt	5700
acagtgaaca	ccagtgaact	gggaaataaa	aagaaagacg	atgaggtaga	cagggatgcc	5760
ccatcacgga	aaaaagctaa	agagcccaca	acacagataa	cagaagaggt	ccgggatcag	5820
ctcctggagg	cctccgctgc	caccaggaaa	gccttcacca	ctttcaggag	ggaggctgat	5880
cccagcgacc	actaccagcc	tggagagggc	acccaggcca	ctgccgacaa	ggccaaggac	5940
gacctggaga	tgagcgcggt	catcaccatc	atcagagcca	tcctccgctt	ccttcagctc	6000
ctgtgtgaaa	accacaaccg	agacctgcag	aacttcctcc	gttgccaaaa	taacaagacc	6060
aactacaatt	tggtatgtga	gacctgcag	tttctggact	gtatttgtgg	aagcacaact	6120
ggaggccttg	gtcttctggg	cttgtatata	aatgaaaaga	acgtagcgct	tatcaaccaa	6180
accctggaaa	gtctgaccga	atactgtcaa	ggaccttgcc	atgagaacca	gaactgcata	6240
gccacccatg	aatccaatgg	cattgacatc	atcacagccc	tgatcctcaa	tgataatcaat	6300
cctttgggaa	agaagaggat	ggaccttgg	ttagaactga	agaacaatgc	ctcgaagttg	6360
ctcctggcca	tcattgaaa	caggcacgac	agtgaaaacg	cagagaggat	actttataac	6420
atgaggccca	aggaactggt	ggaagtgatc	aagaaagcct	acatgcaagg	tgaagtggaa	6480
tttgaggatg	gagaaaacgg	tgaggatggg	gcggcgctcc	ccaggaaact	ggggcacaa	6540
atctacatat	tagcccatca	gttggctcgg	cataacaaa	aacttcagag	catgctgaaa	6600
cctggtggcc	aagtggacgg	agatgaagcc	ctggagtttt	atgccaaagc	cacggcgag	6660
atagagattg	tccagattga	ccgaacaatg	gaacagatag	tctttcccg	gcccagcata	6720

tgtgaattcc	taaccaagga	gtcaaaaacta	cgaattttact	atactacaga	gagagacgaa	6780
caaggcagca	aaatcaatga	tttctttctg	cgggtctgaag	acctcttcaa	tgaaatgaat	6840
tggcagaaga	aactgagagc	ccagcccgtg	ttgtactggg	gtgcccgcaa	catgtctttc	6900
tggagcagca	tttcgtttta	cctggccgtc	ctgatgaacc	tgctggtggc	gtttttctac	6960
ccgttttaag	gagtcgagg	aggaaccctg	gagccccact	ggtcgggact	cctgtggaca	7020
gccatgctca	tctctctggc	catcgtcatt	gccctcccca	agcccatgg	catccgggcc	7080
ttaattgcct	ccacaattct	acgactgata	ttttcagtcg	ggttacaacc	cacgttgttt	7140
cttctgggcg	ctttcaatgt	atgcaataaa	atcatctttc	taatgagctt	tgtgggcaac	7200
tgtgggacat	tcacaagagg	ctaccgagcc	atgggtctgg	atgttgagtt	cctctatcat	7260
ttgttgatc	tgggtgatctg	tgccatgggg	ctctttgtcc	atgaattctt	ctacagtctg	7320
ctgctttttg	atttagtgta	cagagaagag	actttgctta	atgtcattaa	aagtgtcact	7380
cgcaatggag	ggtccatcat	cctgacagca	gttctggctc	tgatcctcgt	ttacctgttc	7440
tcaatagtg	gctatctttt	cttcaaggat	gacttttatct	tggaagtaga	taggctgccc	7500
aatgaaacag	ctgttccaga	aaccggcgag	agtttggtcaa	gcgagttcct	gttctccgat	7560
gtgtgtaggg	tggagagtgg	ggagaactgc	tcctctcctg	caccagaga	agagctgggc	7620
cctgcagaag	agacggaaca	ggataaagag	cacacatgtg	agacgtgct	gatgtgcatt	7680
gtcactgtgc	tgagtcacgg	gctgcggagc	gggggtggag	taggagatgt	actcaggaag	7740
ccgtccaaag	aggaaccctt	gtttgctgct	agagttatct	atgacctctt	gttcttcttc	7800
atgggtcatca	tcattgttct	taacctgatt	tttggggtta	tcattgacac	ttttgctgac	7860
ctgaggagt	agaagcagaa	gaaggaagag	atcttgaaga	ccacgtgctt	tatctgtggc	7920
ttggaaagag	acaagtttga	caacaagact	gtcacctttg	aagagcacat	caaggaagaa	7980
cacaacatgt	ggcactatct	gtgcttcac	gtcctgggtga	aagtaaagga	ctccaccgaa	8040
tatactgggc	ctgagagtta	cgtggcagaa	atgatcaagg	aaagaaacct	tgactgggtc	8100
cccaggatga	gagccatg	attggctcag	agtgaattctg	aaggagaaca	gaatgagctg	8160
agaaacctgc	aggagaagct	ggagtccacc	atgaaacttg	tcacgaacct	ttctggccag	8220
ctgtcgggaat	taaaggatca	gatgacagaa	caaaggaagc	agaaacaaag	aattgggtctt	8280
ctaggacatc	ctcctcacat	gaatgtcaac	ccacaacaac	cagcataagc	aaatgaaaga	8340
aaggaattgt	atttaccttt	tataattatt	attagtgtgg	gtatggctaa	tgagttctga	8400
ttcacccacg	aagggtacat	ttatgctgaa	tacatttgta	aatactcagt	tttatactgt	8460
atgtatatga	ttgtactct	aaaggtttgg	atatatgtat	tgtaattaga	attgttggca	8520
tgtatgacat	tcatttgtgc	caaaaatatt	aaaaatgcct	tttttggaag	gactaacaga	8580
aagcacctga	tttgcacttg	aaccagatta	tagattttaa	agtatatgac	atgtattttg	8640
tattttaaac	tagaatagcc	agtatttatg	ttttttataa	aactgtgcaa	tacgaattat	8700
gcaatcacaa	tacatttgta	gctcccagat	gtcctaaagg	gagtgcactt	ctttgaagct	8760
ggtgtgttaa	tactatgtaa	taaatgggtta	actttcaa	gatgctgctg	ccaaaattat	8820
attaatagt	agtttcaggc	ccctgggcac	tttgtaccat	gtaattatcc	tctgggtgatg	8880
ctgtttctcg	ttagtggcag	tagtgctccc	gtctcctagt	gataatgctc	caagtctatg	8940
aactgttaaa	tcagcattca	ttttaagaaa	agcaacttta	gtttcaaaga	tacttttaag	9000
cttctaaatt	gatcatttaa	actatttctt	taaataagag	agccaaatta	gaggctcata	9060
cttttagcttg	tgaagaagat	aatgaatttt	ttaaagggaa	ctttctatgc	aatgttcagg	9120
ataaatgcat	actgctggcc	aatcagtgtc	atctcctggg	taaattttga	tgtcgcatta	9180
taaagacatg	cataattgat	ggtttctaga	ttatctagtc	caaacaatag	agttttatttt	9240
ttcttcatct	gaaccaacat	gctacagtag	ctaagaagta	ttaaaactat	atacatccat	9300
ataaagatga	aatatgaact	atctcattag	aagtcatagt	tgaccacaga	catgttattc	9360
ttctgaaaga	gccacatttt	ggttttatct	cttgtcacat	gatttctttt	cttgatggat	9420
gaaaaatatg	aaaggaaact	tttatatctg	ttgcctagtt	ttgtacatgg	atctcatttt	9480
acaagagaat	ctctctgcaa	aaaaaaaaaa	aaaacagttt	aaaaatgcat	tgaaagcaga	9540
gttctgaaat	gagtaaagtt	tgtaaatgca	tatatataaa	tatttaataa	atgatgcaga	9600
atatacagtg						9610

<210> 46
 <211> 1882
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 237723.1

<220>
 <221> unsure

PA-0024 US

<222> 1241-1275

<223> a, t, c, g, or other

<400> 46

ttggaggact	ctgggactta	cgagtgcagg	gccagcaacg	acccaagag	gaatgacttg	60
aggcaaaacc	cctccataac	atggattcga	gccaggcca	ccataagcgt	ccttcagaag	120
ccaaggattg	tcaccagtga	agaggtcatt	attcgagaca	gccctgttct	ccctgtcacc	180
ctgcagtgtg	acctcacctc	cagctctcac	acccttacat	acagctactg	gacaaagaat	240
ggggtggaac	tgagtgccac	tcgtaagaat	gccagcaaca	tggagtacag	gatcaataag	300
ccgagagctg	aggattcagg	cgaataccac	tgcgtatata	actttgtcag	cgctcctaaa	360
gcaaacgcca	ccattgaagt	gaaagccgct	cctgacatca	ctggccataa	acggagttag	420
aacaagaatg	aagggcagga	tgccactatg	tattgcaagt	cagttggcta	ccccaccca	480
gactggatat	ggcgcaagaa	ggagaacggg	atgcccattg	acattgtcaa	tacctctggc	540
cgcttcttca	tcatcaacaa	ggaaaattac	actgagttga	acattgtgaa	cctgcagatc	600
acggaagacc	ctggcgagta	tgaatgtaat	gccacctggc	cccactctgg	cctttcttgg	660
gaattctggc	tgaaattatc	atccttgtgg	tgatcattgt	tgtgtatgag	aagaggaaga	720
ggccagatga	ggttcttgac	gatgatgaac	cagctggacc	aatgaaaacc	aactctacca	780
acaatcacaa	agataaaaac	ttgcgccaga	gaaacacaaa	ttaagtactg	cttacaatat	840
cttttaggtt	ctgaaactgg	tggcaacatg	acctgctaaa	attttctgct	tggacctctt	900
tggttctctc	ccctttcaag	tgagcaacac	cacaatgact	gtctaaagca	tgccttattt	960
agcctctcct	gtaaggggtg	tctagccagg	tacattttta	acaatgcttc	agtgtagaag	1020
gtgtaaaact	ttttgggctt	gatgtgctgt	gaatgttgct	tttttttttt	cctttgttaa	1080
aatattttaa	tagaagtga	aaggtcctct	gaggatcaga	tcatgcatgc	gccatttttt	1140
tacttaatgc	agctgttaaa	ttggcaaagc	tctaaaatgc	actgctgcca	tctagtata	1200
cacttttgta	aagtacagca	aaacctacag	atatatacac	nnnnnnnnnn	nnnnnnnnnn	1260
nnnnnnnnnn	nnnnngggg	tgggagaaat	ccaaaataaa	gtaaatgctt	gtttcatttt	1320
taagctgctg	atattcattc	cttattgtat	gttgtcagat	gaggaaattg	tgcagttctg	1380
gtacataaag	atgagtaata	taaactgaaa	tctataat	taagggtcta	acctgtgact	1440
ttaataagct	ggaacagtc	actgaatggg	tataatgaat	tgcagtatat	acgtatgatt	1500
gctttttaag	tgattatctt	ttcttctgtt	aagtcatgta	aattcataaa	tccttttgca	1560
ctgatgtgtt	gaaccttatt	cttgtacatt	actcaatca	aggcaaaact	ttataatttt	1620
tcttttggtt	ccaatgacct	tgaaatgtta	tagcatggta	atattctatg	caactatagt	1680
tatacttttt	ggtttgacac	tgtatttttt	cacattgatt	tactggttga	tgatagattt	1740
tataacctaa	cggttctcat	gcggtgcgta	attgtagatg	catgtacttg	tgtgttttgt	1800
gtaattattg	aagtgcattg	atgtataaaa	aagtggattc	acctgttttt	aaaaataaaa	1860
cattgataaa	aggtgtttgg	at				1882

<210> 47

<211> 1921

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233764.5

<400> 47

gccgcgcgcg	aacccgcgcg	gccactcgct	cgctcagagg	gaggagaaag	tggcgagttc	60
cggatccctg	gcctagcggc	ggccccaacc	tttactccag	agatcatggc	tgccgaggat	120
gtgggtggcg	ctggcgccga	cccaagcgat	ctggagagcg	gcgggctgct	gcatgagatt	180
ttcacgtcgc	cgctcaacct	gctgctgctt	ggcctctgca	tcttctgct	ctacaagatc	240
gtgcgcgggg	accagccggc	ggccagcggc	gacagcgacg	acgacgagcc	gccccctctg	300
ccccgcctca	agcggcgcg	cttcaccccc	gccgagctgc	ggcgcttcga	cggcgctccag	360
gacccgcgca	tactcatggc	catcaacggc	aagggtgtcg	atgtgaccaa	aggccgcaaa	420
ttctacgggc	ccgagggggc	gtatggggtc	tttgctggaa	gagatgcata	caggggcctt	480
gccacatttt	gcctggataa	ggaagcactg	aaggatgagt	acgatgacct	ttctgacctc	540
actgctgccc	agcaggagac	tgctgagtga	ctgggagctc	cagttcactt	tcaagtatca	600
tcacgtgggc	aaactgctga	aggaggggga	ggagccact	gtgtactcag	atgaggaaga	660
acaaaaagat	gagagtgcct	ggaaaaatga	ttaaagcatt	cagtgggaagt	atatctattt	720
ttgtattttg	caaaatcatt	tgtaacagtc	cactctgtct	ttaaaacata	gtgattacaa	780
tatttagaaa	gttttgagca	cttgctataa	gttttttaat	taacatcact	agtgcacta	840

PA-0024 US

```
ataaaattaa cttcttagaa tgcattgatgt gtttgtgtgt cacaaatcca gaaagtgaac 900
tgcagtgtctg taatacacat gttaatactgt tttttcttct atctgtagtt agtacaggat 960
gaattttaaat gtgttttttcc tgagagacaa ggaagacttg ggtatttccc aaaacaggta 1020
aaaatcttaa atgtgcacca agagcaaagg atcaactttt agtcatgatg ttctgtaaag 1080
acaacaaatc cctttttttt tctcaattga cttaactgca tgatttctgt tttatctacc 1140
tctaaagcaa atctgcagtg ttccaaagac ttgggtatgg attaagcgct gtccagtaac 1200
aaaatgaaat ctcaaaacag agctcagctg caaaaaagca tattttctgt gtttctggac 1260
tgcactgttg tccttgccct cacatagaca ctccagacacc ctccacaaaca cagtagtcta 1320
tagttaggat taaaatagga tctgaacatt caaaagaaag ctttggaanaa aaagagctgg 1380
ctggcctaaa aacctaataa tatgatgaag attgtaggac tgtcttccca agcccatgt 1440
tcatggtggg gcaatggtta tttggttatt ttactcaatt ggttactctc atttgaaatg 1500
agggagggag ggaacagggt ggaacagggt ttgctctcc taagagcctt catgcacacc 1560
cctgaaccac gaggaacag tacagtcgt agtcaagtgg tttttaaagt aaagtatatt 1620
cataaggtaa cagttattct gttgttataa aactataccc actgcaaaag tagtagtcaa 1680
gtgtctaggt ctttgatatt gctcttttgg ttaacactaa gcttaagtag actatacagt 1740
tgtatgaatt tgtaaaagta tatgaacacc tagtgagatt tcaaacttgt aattgtgggt 1800
aaatagtcac tgtattttct tgtgaactgt gttttatgat tttacctcaa atcagaaaac 1860
aaaatgatgt gctttgggtca gttaataaaa atgggttttac ccactaaaaa aaaaaaaaag 1920
g 1921
```

<210> 48

<211> 2246

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474194.5

<400> 48

```
gccgcgtgca gaggtgctca agcctcctgc ggggtccgca gtcagtgccg ccgcgcccgg 60
cctcccgcac gccccgcagg tagcgccecc gcccgcggcc cagagtgcgc tcgcgcgggc 120
accagctccc ggataaacgg cgcgcgcgc ggagatgaca gccgaggaga tgaaggcgac 180
cgagagcggg gcgcagtcgg cgcgcctgcc catggaggga gtggacatca gcccacaaaca 240
ggacgaaggc gtgctgaagg tcatcaagag agagggcaca ggtacagaga tgcccatgat 300
tggggaccga gtctttatcc actacactgg ctgggctatt agatggcaca aagtttgact 360
ccagtctgga tcgcaaggac aaattctcct ttgacctggg aaaaggggag gtcacaaagg 420
cttggggacat tgccatagcc accatgaagg tgggggaggt gtgccacatc acctgcaaac 480
cagaatatgc ctacggttca gcaggcagtc ctccaaagat tcccccaat gccacgcttg 540
tatttgaggt ggagttgttt gagtttaagg gagaagatct gacggaagag gaagatggcg 600
gaatcattcg cagaatacag actcgcggtg aaggctatgc taagcccaat gaggggtgcta 660
tcgtggaggt tgactggaa gggactaca aggacaagct ctttgaccag cgggagctcc 720
gctttgagat tggcgaggg gagaacctgg atctgcctta tggctctggag agggccattc 780
agcgcattgga gaaaggagaa cattccatcg tgtacctcaa gccagctat gcttttggca 840
gtgttgggaa ggaaaagttc caaatccac caaatgctga gctgaaatat gaattacacc 900
tcaagagttt tgaaaaggcc aaggagtctt gggagatgaa ttcagaagag aagctggaac 960
agagcaccat agtgaaagag cggggcactg tgtacttcaa ggaaggtaaa tacaagcaag 1020
ctttactaca gtataagaag atcgtgtctt ggttggaata tgagtctagt ttttccaatg 1080
aggaagcaca gaaagcacag gcccttcgac tggcctctca cctcaacctg gccatgtgtc 1140
atctgaaact acaggccttc tctgctgcca ttgaaagctg taacaaggcc ctagaactgg 1200
acagcaacaa cgagaagggc ctcttcgcgc ggggagaggc ccacctggcc gtgaatgact 1260
ttgaactggc acgggctgat ttccagaagg tctgcagct ctaccccaac aacaaagccg 1320
ccaagaccca gctggctgtg tgccagcagc ggatccgaag gcagcttgcc cgggagaaga 1380
agctctatgc caatatgttt gagaggctgg ctgaggagga gaacaaggcc aaggcagagg 1440
cttctcagc agaccatccc actgacacag agatgaagga ggagcagaag agcaacacgg 1500
cagggagcca gtctcaggtg gagacagaag catagccctc ctccaccagc cctactcctg 1560
cggctgcctg cccccagtc tccccactcc accctgttag ttttgtaaaa actgaagaat 1620
tttgagtgaa ttagaccttt atttttctat ctgggttgat ggtggcttta ggggaagggg 1680
gaaagggtgta ggctggggga ttgaggtggg gaatcatttt agctggtgtc agccctctt 1740
cccttcctcc attgcacatg aacatatgtc catccatata tattcatcag aatgttaatt 1800
tattttgact cctctgtagt gtccattttc taagggtaga agaggcaagt ggtagggatg 1860
```

PA-0024 US

```
aggtctgata agaaccagg gtggagaggg agactcctgg gcagccggtt tctcctcct 1920
ttccctctcc cagtcattt ccaaagtgtg cctccatgtg ggtgctaggg acatgggaaa 1980
aaccactgct atgccattt ttctctctgt tcccttctc acccccgacg gtgtggctga 2040
tgatgtcttc tgggtgcatg gtgaccaccc cctgttccct gttctggtat ttccctgtc 2100
agtttccct ctcggccagg ttgtgtccca aaatccctc agcctcttct ctgcacgttg 2160
ctgaagggtcc aggcttgcc caagtcccat gcttgagcaa taaagtggaa acaataaaac 2220
ctgggtgtca gacaaccctt tctgtt 2246
```

<210> 49
<211> 1094
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1098468.1

<220>
<221> unsure
<222> 315
<223> a, t, c, g, or other

```
<400> 49
agctgggttac acctttgggc aagatatttc tgagacattt aatcatgcc aatggcctcac 60
ggttggtgtct agagctcacc agctagtgtat ggagggatat aactggtgcc atgaccggaa 120
tgtagtaacg attttcagtg ctccaaacta ttgttatcgt tgtggtaacc aagctgcaat 180
catggaactt gacgatactc taaaatactc tttcttgag tttgaccag cacctcgtag 240
ggcgacgtcc acatgttact cgtcgtaccc cagactactt cctgtaatga aattttaaac 300
ttgtacagta ttgancatga accatatatc gacctaatgg aaatgggaag agcaacagta 360
actccaaagt gtcagaaaat agttaacatt caaaaaactt gttttcacat ggacaaaag 420
atgtgccata taaaaataca aagcctcttg tcatcaacag ccgtgaccac tttagaatga 480
accagttcat tgcagtctga agcgacattg ttggtcaaga aaccagtttc tggcatagcg 540
ctattttagt ttacttttgc tttctctgag agactgcaga taataagatg taaacattaa 600
cacctcgtga atacaattta acttccattt agctatagct ttactcagca tgactgtaga 660
taagtagatg agcaaacaat cattggagct taatgaacat ttttaaaaaat aattaccaag 720
gcctcccttc tacttgtgag ttttgaaatt gttcttttta ttttcaggga taccgtttaa 780
tttaattata tgatttgtct gcaactcagtt tattccctac tcaaatctca gccccatggt 840
gttctttgtt attgtcagaa cctggtgagt tgttttgaac agaactgttt tttcccttc 900
ctgtaagacg atgtgactgc acaagagcac tgcagtgttt ttcataataa acttgtgaac 960
taagaactga gaagggtcaa ttttaattgt atcaatgggc aagactggtg ctgtttatta 1020
aaaaagttaa atcaattgag taaattttag aattttagta cttgtaggta aaataaaaat 1080
caagggcact acat 1094
```

<210> 50
<211> 3768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 298463.3

<220>
<221> unsure
<222> 3749, 3765
<223> a, t, c, g, or other

```
<400> 50
ccttccgatg attcggctct tctcggetca gtctcagcga agcgtctgcg accgtcgttt 60
gagtcgtcgc tgccgctgcc gctgccactg ccactgccac ctcgcggatc aggagccagc 120
gttggttcgcc cgacgcctcg ctgccggtgg gaggaagcga gaggaagcc gcttgccgggt 180
```

ttgtcgccgc	tgctcgccca	ccgcctggaa	gagccgagcc	ccggcccagt	cggtcgcttg	240
ccaccgctcg	tagccgttac	ccgcggggccg	ccacagccgc	cgcccgggag	agggcgccgc	300
catggcttct	ggagccgatt	caaaagggtga	tgacctatca	acagccattc	tcaaacagaa	360
gaaccgtccc	aatcgggttaa	ttgttgatga	agccatcaat	gaggacaaca	gtgtggtgtc	420
cttgtcccag	cccaagatgg	atgaattgca	gttggtccga	ggtgacacag	tggtgctgaa	480
aggaagaag	agacgagaag	ctgtttgcat	cgtcctttct	gatgatactt	gttctgatga	540
gaagattcgg	atgaatagag	ttgttcggaa	taaccttcgt	gtacgcctag	gggatgtcat	600
cagcatccag	ccatgccttg	atgtgaagta	cggcaaacgt	atccatgtgc	tgcccattga	660
tgacacagtg	gaaggcatta	ctggtaatct	cttcgaggta	taccttaagc	cgtacttctt	720
ggaagcgtat	cgacccatcc	ggaaaggaga	cattttttctt	gtccgtgggtg	ggatgcgtgc	780
tgtggagttc	aaagtgggtg	aaacagatcc	tagcccttat	tgcatgtgtg	ctccagacac	840
agtgatccac	tgcaaggagg	agcctatcaa	acgagaggat	gaggaagagt	ccttgaatga	900
agtaggggat	gatgacattg	gtggctgcag	gaagcagcta	gctcagataa	aggagatggt	960
ggaactgccc	ctgagacatc	ctgcccctctt	taaggcaatt	ggtgtgaagc	ctcctagagg	1020
aatcctgctt	tacggacctc	ctggaacagg	aaagaccctg	attgctcgag	ctgtagcaaa	1080
tgagactgga	gccttcttct	tcttgatcaa	tggtcctgag	atcatgagca	aattggctgg	1140
tgagtctgag	agcaaccttc	gtaaagcctt	tgaggaggct	gagaagaatg	ctcctgccat	1200
catcttcatt	gatgagctag	atgccatcgc	tcccaaaaga	gagaaaactc	atggcgagggt	1260
ggagcgccgc	attgtatcac	agttgttgac	cctcatggat	ggcctaaagc	agagggcaca	1320
tgtgattggt	atggcagcaa	ccaacagacc	caacagcatt	gacccagctc	tacggcgatt	1380
tggtcgcttt	gacagggagg	tagatattgg	aattcctgat	gctacaggac	gcttagagat	1440
tcttcagatc	cataccaaga	acatgaagct	ggcagatgat	gtggacctgg	aacaggtagc	1500
caatgagact	cacgggcatg	tgggtgctga	cttagcagcc	ctgtgctcag	aggetgctct	1560
gcaagccatc	cgcaagaaga	tggatctcat	ttagctagag	gatgagacca	ttgatgccga	1620
ggcatgaac	tctctagcag	ttactatgga	tgacttcogg	tgggccttga	gccagagtaa	1680
cccatcagca	ctgcgggaaa	ccgtggtaga	ggtgccacag	gtaacctggg	gaagacatcg	1740
ggggcctaga	ggatgtcaaa	cgtgagctac	aggagctggt	ccagtatcct	gtggagcacc	1800
cagacaaatt	cctgaagttt	ggcatgacac	cttccaaggg	agttctgttc	tatggacctc	1860
ctggctgtgg	gaaaaactttg	ttggccaaag	ccatttgctaa	tgaatgccag	gccaacttca	1920
tctccatcaa	gggtcctgag	ctgccacca	tgtggtttgg	ggagtctgag	gccaatgtca	1980
gagaaatctt	tgacaaggcc	cgccaagctg	ccccctgtgt	gctattcttt	gatgagctgg	2040
attcgattgc	caaggctcgt	ggaggtaaca	ttggagatgg	tggtggggct	gctgaccgag	2100
tcataacca	gaccttgaca	gaaatggatg	gcatgtccac	aaaaaaaaat	gtgttcatca	2160
ttggcgctac	caaccggcct	gacatcattg	atcctgccat	cctcagacct	ggcctgtctg	2220
atcagctcat	ctacatccca	cttctctgat	agaagtcccg	tgttgccatc	ctcaaggcta	2280
acctgcgcaa	gtccccagtt	gccaaggatg	tggacttggg	gttcctggct	aaaaagtacta	2340
atggcttctc	tggagctgac	ctgacagaga	tttgccagcg	tgcttgcaag	ctggccatcc	2400
gtgaatccat	cgagagttag	attaggcgag	aacgagagag	gcagacaaac	ccatcagcca	2460
tggaggtaga	agaggatgat	ccagtgcctg	agatccgtcg	agatcacttt	gaagaagcca	2520
tgcgctttgc	gcgccgttct	gtcagtgaca	atgacattcg	gaagtatgag	atgtttgccc	2580
agacccttca	gcagagtccg	ggctttggca	gcttcagatt	cccttcaggg	aaccagggtg	2640
gagctggccc	cagtcaaggc	agtggaggcg	gcacaggtgg	cagtgtatac	acagaagaca	2700
atgatgatga	cctgtatggc	taagtgttgg	tggccagcgt	gcagtgagct	ggcctgcctg	2760
gaccttgctc	cctgggggtg	ggggcgcttg	cccaggagag	ggaccagggg	tgcgcccaca	2820
gcctgctcca	ttctccagtc	tgaacagttc	agctacagtc	tgactctgga	caggggggtt	2880
ctgttgcaaa	aatacaaaac	aaaagcgata	aaataaaagc	gatttttcatt	tggtaggcgg	2940
agagtgaatt	accaacaggg	aattgggcct	tgggcctatg	ccatttctgt	tgtagtttgg	3000
ggcagtgtag	gggacctgtg	tggggtgtga	accaaggcac	tactgccacc	tgccacagta	3060
aagcatctgc	acttgactca	atgctgcccg	agccctccct	tccccctatc	caacctgggt	3120
aggtgggtag	gggccacagt	tgctggatgt	ttatatagag	agtaggttga	tttattttac	3180
atgcttttga	gttaatgttg	gaaaactaat	cacaagcagt	ttctaaacca	aaaaatgaca	3240
tgttgtaaaa	ggacaataaa	cgttgggtca	aaatggagcc	tgagtccctg	gccctgtgcc	3300
tgcttctttt	cctgggaaca	gccttgggct	acccaccact	cccaaggcat	tcttccaaat	3360
gtgaaatcct	ggaagtaaga	ttgcaccttc	ttcctctcct	gatcaacatc	ggtagtatgt	3420
ctcctgttgc	ctcacccttt	gtctgcagta	tgacttgata	ggactgggtg	aaagggagca	3480
gcctgacaga	gtcccaaatg	tggagaatat	ggcatccctc	cacctatatt	tgatgtggac	3540
ggtaaggcta	ggcctgcagg	atcccttatc	ctgaccaaag	actgtgttgg	ggtgccattt	3600
gaaaatcgca	gggttgcaaa	agaatacaat	cttacttgca	ggtggatatt	ctctatactc	3660
tcttttaaatg	catctaaaaa	tcccaaacat	cccctggttg	gtgatcactt	acagttgtgt	3720
ccacctttat	tttatgtact	ttgattaana	aaaaaaaaaac	ttttnngtt		3768

PA-0024 US

<210> 51
<211> 2333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 369950.68

<400> 51
cctttgccgc cgccttagcc cgggacccca acccagcctc tcccctaccc gaacaccggc 60
cccggctcca ccgaggcccg ggtcccccag cccgtctcgc cgccgccatg gcggacccta 120
aatacgccga ccttcccgcc attgccagga atgagccaga tgtttatgaa actagcgacc 180
tacctgagga tgatcaagcg gagttcgatg cgtttgcaca agagctggag gagctgacaa 240
gcacaagtgt ggaacacatc attgtcaatc ctaatgctgc ctatgacaag ttcaaggaca 300
agagagtggg gacaaaggga cttgattttct cagatcgatg tggaaaaacc aagaggacag 360
gatatgaatc tggagaatat gagatgcttg gagaggggtc gggagtgaag gagacacccc 420
agcaaaagta ccagcgccta ctgcatgagg tccaagagct gacaactgaa gttgaaaaaa 480
tcaagacgac agtgaaggag tcagccacag aggagaagct gacccctgtg ttgctggcta 540
aacagctggc agccctgaag cagcagctgg ttgcttccca cctggagaag ctgctgggac 600
cagatgctgc aatcaacctt accgaccccg atggcgccct ggctaagcgc ctactactgc 660
agctggaagc aacaaagaac agcaaagggg gatcaggggg aaaaaccact gggaccccc 720
cagatagcag ccttgtcact tatgaactac attctcgccc tgagcaggac aagttctctc 780
aagctgccaa agtcgcagaa cttgaaaagc gctgacaga gctggagaca gctgtacgtt 840
gtgatcagga tgctcagaat cccctttctg caggtctaca gggagcctgt ctcattggaga 900
ctgtagagct gttgcaagca aaggtgagcg ccttagacct tgcagttttg gatcaagtgg 960
aggctcggct acagagtgtc ctgggaaagg tgaacgagat tgccaagcat aaagcctctg 1020
tagaagatgc agatacacia agcaaggtgc accagctata tgaactata cagcgttgga 1080
gccccattgc ctccaccctc cctgagctgg tgcagagact tgtcaccatc aagcagctgc 1140
acgagcaagc catgcagttt ggtcagctcc tgacacactt ggataccacc cagcatagta 1200
ttgctaattc cttgaaggac aataccacc tcttgaccca ggtgcagaca accatgcgtg 1260
aaaacctggc cacagttgag gggaactttg ccagcattga tgaacggatg aagaagctgg 1320
gaaagtgagc acatttgagg gctggagaac aggggttatc cctacccctg tgaactctgt 1380
taacagctta catagggttt cccctttact ataactctag catccccatc ccatttgaca 1440
ctgggggcaa gggttcttct tgcattgtgg gtttataccc ctcccctgat gaatacagag 1500
tggtagctag gggttgggta tcatcagaag gtggtctccc ctcaggcctg ggggataagg 1560
acgtggggcc agccacatgc caactcatgt ccaatactgc tttgcctggg gtggggaagg 1620
attgggtctt gtcccccaac acagcttctg tggtctgact taatactgta caactgttct 1680
tgaccattaa atgctgttgt actctgtgtg gectctgctg tgtttcctgg ggaggaagca 1740
gcactaggac atagatattc attcgtcata acaggcaatc taagccactc tatactacaa 1800
gagatggatt taaattgtaa cctgttctta ccaaagaact aaataaaaaa tgagtacaga 1860
gccagagcca gagtttcaaa atattctcat ctgttaaatt aagagtgtct cccatagaaa 1920
agcagtggag gccccacagg gcaagtacaa aacagaatta aaactcccaa ggtcttgtc 1980
tttacaaaag aaaaggcagg aggcagcccc tggacagctg gtcattgtgg ccgctccggt 2040
tggaccacgt tgcataatcc tcagtcgcat catcacaacg tctctttcac tgggaaggag 2100
ggcagcagcc aacagtagct cacaggtttg taaactgagc ctgttggcca ctgtccacag 2160
gtgcaggtgg ctggcagggg ctcccaaggc tcagcactca gctctcccca atcagggtca 2220
gatccagctc caggtatggc tgctatgggg ccagtttctt cctcttggtt ttggcaggac 2280
ggccaggggc ggcccgggga ggcagagga cagctgctcg ggctgtaggg ctg 2333

<210> 52
<211> 2201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 223035.8

<400> 52
gaaagtttca tttatctaata caatgatttg gttaggcggt aatcattttt taatttgatt 60

```

caaatatgcc ccacgggtaa cagatgcccc tgteccctct ggccccaggg gacatcttca 120
tcaccagcgt ggacgccgcc acgaccttcg aggagctctg tgaggaagtg agagacatgt 180
gtcgtctgca ccagcagcac ccgctcacco tcaagtgggt ggacagcgaa ggtgaccctt 240
gcacgggtgc ctcccagatg gagctggaag aggttttccg cctggcccgt cagtgcaggg 300
atgaaggcct catcattcat gttttccoga gcaccttgga gcagcctggc ctgccatgtc 360
cgggagaaga caaatctatc taccgccggg gagccagaag atggaggaag ctgtaccgtg 420
ccaacggcca cctcttccaa gccaaagcgt ttaacaggag agcgtactgc ggtcagtgc 480
gcgagaggat atggggcctc gcgaggcaag gctacagggt catcaactgc aaactgctgg 540
tccataagcg ctgccacggc ctcgteccgc tgacctgcag gaagcatatg gattctgtca 600
tgcttcccg agagcctcca gtagacgaca agaacgagga cgccgacctt ctttccgagg 660
agacagatgg aattgcttac atttctctcat cccggaagca tgacagcatt aaagacgact 720
cggaggacct taagccagtt atcgatggga tggatggaat caaaatctct caggggcttg 780
ggctgcagga ctttgacctc atcagagtca tcgggcgcgg gagctacgcc aaggttctcc 840
tgggtgcggt gaagaagaat gaccaaattt acgccatgaa agtggtgaag aaagagctgg 900
tgcattgatga cgaggatatt gactgggtac agacagagaa gcacgtgttt gagcaggcat 960
ccagcaaccc cttctgtgtc ggattacact cctgcttcca gacgacaagt cggttgttcc 1020
tggtcattga gtacgtcaac ggccggggacc tgatgttcca catgcagagg cagaggaagc 1080
tccctgagga gcacgccagg ttctacgcgg ccgagatctg catcgccctc aacttcttgc 1140
acgagagggg gatcatctac agggacctga agctggacaa cgtcctcctg gatgcggacg 1200
ggcacatcaa gctcacagac tacggcatgt gcaaggaagg cctggggcct ggtgacacaa 1260
cgagcacttt ctgcggaacc ccgaattaca tcgccccga aatcctgcgg ggagaggagt 1320
acgggttcag cgtggactgg tgggcgctgg gagtctcat gtttgagatg atggccgggc 1380
gctccccgt cgacatcatc accgacaacc cggacatgaa cacagaggac taccttttcc 1440
aagtgatcct ggagaagccc atccggatcc cccggttctt gtccgtcaaa gcctcccatg 1500
ttttaaaagg atttttaaat aaggacccca aagagaggct cggctgccgg ccacagactg 1560
gatttttctga catcaagtcc caccgcttct tccgcagcat agactgggac ttgctggaga 1620
agaagcaggc gctccctcca ttccagccac agatcacaga cgactacggt ctggacaact 1680
ttgacacaca gttcaccagc gagcccgctg agctgacccc agacgatgag gatgccataa 1740
agaggatcga ccagtcagag ttccaaggct ttgagtatat caaccatta ttgctgtcca 1800
ccgaggagtc ggtgtgaggg cgcgtgcgtc tctgtcgtgg acacgcgtga ttgacctttt 1860
aaactgtatcc ttaaccaccg catatgcatt ccttgctggg caccgctccg agggcgcca 1920
gggacagacg cttgcgccga gaccgcagag ggaagcgtca gcgggcgctg ctgggagcag 1980
aacagtccct cacacctggg cccgggcagg ccagcttcgt gctggaggaa cttgctgctg 2040
tgctgcgtc gcggcggtac cgcggggacc ctgccgaggg ggctgtcatg cggtttccaa 2100
ggtgcacatt ttccacggaa acagaactcg atgcactgac ctgctccgcc aggaaagtga 2160
gcgtgtagcg tcctgaggaa taaaatgttc cgatgatgtg g 2201

```

<210> 53

<211> 3770

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232956.2

<400> 53

```

gtcggctccct agcgcggctg cggggcgagg agctgcggct ggcccagcgc gccacactga 60
ggaggcgggcg gggctccgcag gcgtcgcggg acgaggagat cggagccggg agactcgcgc 120
aggccatggc ccccatgtgc ctcaaagctg ttgtcggaga gaagattatg catgatgtga 180
taaagaaggt caagaagaag ggggaatgga aggtgctggg ggtggatcag ttaagcatga 240
ggatgctgtc ctctgctgc aagatgacag acatcatgac cgagggcata acgattgtgg 300
aagatatcaa taagcgcaga gagccgctcc ccagcctggg aggctgtgta tctcatcaact 360
ccatccgaga agtccttcca ctctctcatc agtgacttta aggaccgcc gactgctaaa 420
taccgggctg cacacgtctt cttcaactgac tcttgccag atgcctgtt taatgaactg 480
gtaaaatccc gagcagccaa agtcatcaaa actctgacgg aaatcaatat tgcattttctc 540
ccgtatgaat cccaggctta ttcttggac tctgctgact ctttccaaag cttctacagt 600
ccccacaagg ctccagatgaa gaatcctata ctggagcgcc tggcagagca gatcgcgacc 660
ctttgtgcc cctgaagga gtaccgggt gtgcgggtatc ggggggaata caaggacaat 720
gccctgctgg ctccagctaa ccaggacaag ctcgatgcct ataaagctga tgatccaaca 780
atgggggagg gccagacaa ggcacgctcc cagctcctga tcctggatcg aggttttgac 840

```

```

cccagctccc ctgtgctcca tgaattgact tttcaggcta tgagttatga tctgctgcct 900
atcgaaaatg atgtatacaa gtatgagacc agcggcatcg gggaggcacg ggtgaaggag 960
gtgctcctgg acgaggacga cgacctgtgg atagcactgc gccacaagca catcgagag 1020
gtgtcccagg aagtcacccg gtctctgaaa gatttttctt ctagcaagag aatgaatact 1080
ggagagaaga ccaccatgcg ggacctgtcc cagatgctga agaagatgcc tcagtaccag 1140
aaagagctca gcaagtactc caccacctg cacttgctg aggactgtat gaagcattac 1200
caaggcaccg tagacaaact ctgccgagtg gagcaggacc tggccatggg cacagatgct 1260
gagggagaga agatcaagga ccctatgcga gccatcgctc ccattctgct ggatgccaat 1320
gtcagcactt atgacaaaat ccgcatacct cttctctaca tctttttgaa gaatggcatc 1380
acgggagaaa acctgaacaa actgatccag caccgccaga tccccccgga ggatagttag 1440
atcatcacca acatggctca cctcggcgtg cccatcgctc ccgattccac gctgcgtcgc 1500
cggagcaagc cggagcggaa ggaacgcac agcgagcaga cctaccagct ctcacggtgg 1560
actccgatta tcaaggacat catggaggac actattgagg acaaaactga caccaaacc 1620
tacccttata tctctacccg ttctctgtcc tcttcagca ccaccgccgt cagcgccgc 1680
tatgggcaact ggcataagaa caaggcccca ggcgagtacc gcagtggccc ccgcctcatc 1740
attttcatcc ttgggggtgt gagcctgaat gagatgcgct gcgcctacga ggtgacccag 1800
gccaacggaa agtgggaggt gctgatagga tccacacaca tctcaccctc acagaaactg 1860
ctggacacac tgaagaaact gaataaaaca gatgaagaa taagcagtta aaaaaataag 1920
tcgccccctc aaaacacgcc cccatccccc agcgtccgc agcttcccac caccgccgc 1980
ctcagttcct ttgcgtctgt tgccctccca gccctgcacg ccctggctgg cactgttgcc 2040
gctgcattct cgtgttcagt gatgccctct tcttgtttga aacaaaagaa aataatgcat 2100
tgtgtttttt aaaaagagta tcttatacat gtatcctaaa aagagaagct catgtgcaat 2160
tggtgcacag caggagaaat ttctggactg ttaggatgaa tggacgcctt ctccccgtta 2220
tttaagattt gtgacctgtt acataaccct gggtgacgtg cacattgctt gggtaggaa 2280
cggtagaaat ttgggtgttt ttaaaacctt gtttggtgtt gttcctgtcc ttgttgagaa 2340
tcatagagat gtctgtgttc ttggagtatt tcacactgag gactaatctg ctatcttcat 2400
tccagtcctt accctcagt gcctgtctct atccaaataa cctgggaggt gacaatcagg 2460
atatctcagg aggtccaagg tggaacagac ctctttgcct tcccagcgt ctcatacccc 2520
cggtagtgca gctgtgggtg gaggtcgggg tgtctgcacg aagtcaggcc agcgtcctcc 2580
tccacgcctt gtcactgccc cctccccagc ctgtgtccac agtgctgtga tcccaggga 2640
agtccctcag tctaatcac agtgccctga caggtaggaa gcaaactccc gctggaagcc 2700
tccatctctt tggaaaaaca gttagtctgg agcctgtggc ccaggccctt ctgtccccag 2760
gcatcatccc aacagctcat tttccctagt ccgccttcgt tcaagggtca ggaatggacc 2820
agaacagatg ggttctggag gccctgaac agagggctat ggctgtggag aaggttcttg 2880
gcccgttga ctcacacaga ccctgtaccc tctcggcaag catcttcagt cagattatcc 2940
tcagtttcag atacttcata atacctgtgt ttgtgtgggg tcatacatca tcgtgtttgt 3000
aagagaagat ggtcatttta ttctctgtat aaaacttagc tctaaagcag aaactaaagc 3060
agcaaatgca ggaaggctgt ctgccatcc tcaagactca gcagctctca ttctccagt 3120
gtgagcacac catttgtgct gctgctgttg togtgaaata taataacagt ggaagtcaca 3180
aaaatgtccc ctgccagcc ccctgcgcgc ccttgacctc ctgcaggcca tgtgtgtatt 3240
acttgtctag tgatgtcttc tcaaagtgt gtacgcgagc tcggcgccac ctccgcctcc 3300
ctttcagagc ctgctccccg ccctctctgc togtgcatt gtggtgttct cttctcaag 3360
ctttgaaatc tccccttgca ctgagattag tcgtcagatc tctccccgtc tccctccaa 3420
cttatacgac ctgatttctt taggacggaa ccgcaggcac ctgcgcggg cgtcttactc 3480
ccgctgcttg ttctgtcccc tccctcggac caaacagtgc tcatgcttca ggacctgtt 3540
tgtcgaagat gttggtttcc ctttctctgt tatttatata aaaataattt atcaaaagga 3600
tattttaaaa aagctagtct gtcttgaaac ttgtttacct taaaattatc agaatctcag 3660
tgtttgaaag tactgaagca caaacatata tcactctctg accattctgt actaaagcac 3720
ttgagtctaa taaataagaa aatcacctca ccttccgggt gtccaggggg 3770

```

```

<210> 54
<211> 5722
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 331485.3

```

```

<400> 54
ggcggctcag acacggcccg agcgccgccg gggacgcgga cagagacccg cacgggcacg 60

```

```

ggcgctgcgc tggaggctcc cctcgcggtc cggggctgcg cgaccatggc ggacaaggag 120
gccggcggca gcgacgggcc ccgagaaacg gctcccacat ctgcataatc atctccagcc 180
cggagtcttg gggacacagg aataacgcct ctgtcccccct cccatattgt gaacgacact 240
gactccaacg tctcagaaca gcagtcattt ctcggtgggtg tggccgtcga ctttgggacc 300
acatccagtg gctatgccta cagcttcacc aaggagccgg aatgcatcca tgtgatgagg 360
cgatgggagg gaggtgaccc tgggtgtgcc aatcagaaga ctccaaccac catcttctg 420
actcccgaga ggaagtcca cagcttcggg tatgcgcga gggactttta ccatgacctg 480
gateccaatg aggccaagca gtggctgtac ctggagaagt tcaagatgaa gctgcacacc 540
actggggacc tcaccatgga tacagacctg acggcagcaa atggcaagaa agtcaaagcc 600
cttgaaatct ttgcttatgc cctgcagtac ttttaaggagc aggcgctgaa ggagctgagt 660
gaccaggcgg gttcggagtt cgagaactct gatgtcagat gggtcatcac ggtgcctgcc 720
atctggaagc agccggccaa gcagttcatg agacaagtct cctaccaggc aggcctggcc 780
tcccccgaga actcgggagc gctcatcatt gccttggagc ctgaggcagc ctctatctac 840
tgccgaaagc tgcggctaca ccagatgatt gagctgagca gcaaggcagc cgtcaatggg 900
tacagcggca gtgacacagt aggagctggg tttacacagg ctaaggaaca catacggcgt 960
aatcggcaga gtcggacctt tttggtggag aatgtcatag gagaaatctg gtccgagctg 1020
gaggaagggtg ataagtatgt ggttgtggac agtggcgggtg gcaccgtaga cctgacagtc 1080
catcagatcc ggttaccgga gggacacctt aaggaactgt ataaagcaac aggcggaccc 1140
tatggatctt tagagagttag attatgagtt cgaaaaactt ctgtataaaa tatttggaga 1200
ggattttatt gaacaattca aaatcaaagc cctgcagcc tgggttgact taatgattgc 1260
gtttgagttc cgcaaaaggg cggctgcccc agacagaact aaccgctga acatcacct 1320
gcccttctcc ttcattgact actacaagaa gttccgcggg cacagtgtgg agcacgcctt 1380
gcggaagagc aatgtggatt tgggtgaagtg gtcctcgcag gggatgctgc ggatgagtcc 1440
agatgccatg aacgcccttt ttaagccgac catcatagc atcattgagc atctccggga 1500
cctgtttcag aagcccgagg tgtccacgt caagtctctc tttctgggtg gcgctttgc 1560
cgaggcggcc ctgctgcagc aggcggtgca ggtgctttt ggggaccagt gccggatcat 1620
catccccagc gacgtgggcc tcaccatcct caaggtgcc gtcctctttg gcctggaccc 1680
cgcggtcatc aaggtgcgcc ggtcgcgcgt cacctacggg gtaggcgtgc tgaaccgcta 1740
cgtggagggc aagcaccgc ctgagaagct gctggtgaag gatggcactc ggtggtgcac 1800
cgagctcttt gacaagtcca tctctgcga ccagtctgtg gctctgggtg agctggtcaa 1860
gcgtagctac agcccgcca agccctccca gctggtcatt gtcataaca tctacagctc 1920
tgagcacgac aacgtcagct tcatcactga tcccggggtg aagaagtgtg gcacgctccg 1980
cctggatctc acagggaaca gtggcactgc ggtgcccgc cggagggaga tccagacct 2040
tatgcagttc ggggacaccg agatcaaagc cacagccatt gatatagcca cttcgaagag 2100
tgtcaaaagt gggatcgact tcttaaatta ctaaccctcc cgccccgctg cctgtcccct 2160
tggactcaac ttatctgcat ctgctgacct caaccttgac tgttctttcc ctaaccttga 2220
cctcaccat tgcccatgtg aatttcagca ggaagatga gaacaatcag ggctagaaat 2280
aattagtac ttttgagggc acactggagt cagaaaaaca gaaattaaga ttaaggttta 2340
ggcatagaaa attaaaggat cctggaggag cagctagttt tcataggtac aaaagtgggtg 2400
aaatggccac ggagaaggga atcagtagat ttctgcagca gtgggtgcgc tgctttgaac 2460
agatctccgt tatgtagaat ttaggatgcc ctattgctgt ctttctagat ttaaaatgag 2520
atctttgaac caggaggaga tcttcatctg agacttgtct ttctaaattt tttggatggc 2580
catcaatata aaatgccacc catctgcagt taatttcttt tctcatcat gtgattgaaa 2640
gtggtgattc agtgggaact gggaatgttt ttagctgggtg gtagaaggct gcctacactg 2700
ggcactgttt tagattctca tatcatttaa acagcaagga ggttcaggga agaataaccg 2760
tagccttggg taatccacta gggcttttgt gagtaggaga gctgatacct cacattctta 2820
gcagggtgaa acttgccatg atggaaacag atagtgaaga gttactgacg tatcccaaat 2880
tatatgctgt gacataaatt ccagcatgc ccagccctga tttctgagtt cataagtaat 2940
tctagtgaac cttagtagga attctgggta agaaaatgag gttgccattg gtcttgtttg 3000
catcaccaag accagacatc cagaagagcc cctcaccttg aaaagcagac agatttttaa 3060
ttaacccct cctccact cacttcac tccctaagag ttttggccat ttaattccac 3120
atcttgaaag gaatacattg gtgaaatttg ggaagagaat ctgtgctatg caatgtttca 3180
ttaaaatctt cagtttttca agtctctcta aaaataattt gtagatctat acttgatgta 3240
ttaagtcatg tttttttcac agcgggcctt tggctgcct gcatcagaat tgccctgggtg 3300
cgtgttcaga acaggttcc gtagctgagc ccttttaac tgaggccgac tcttgagag 3360
gggcaccaga atctgcattt gtagtgtata ccacatcgtg gttcaactga aattggagaa 3420
atactaacct gagattttgt tgaagttcac acacagatca cagcccgccc tctgcagggtg 3480
tcccccttgg gctcctttag gaagagggtt ccatgagaag gtgaccccat acctgccc 3540
cttgggtcaat gggattgggg ctccacctgg cttggagatg gcccttttaa cctcacagg 3600
aagggccagg ggaggaaaaa aattgcaaga aagcgacacc aagaacggag ctgactgagg 3660
aaccaatgag aggggtctca ctctctcctt cccagtgtta caaaaccagt tttctgaacc 3720

```

attcaggagc	caaatgagga	aaaagaatca	agaatctgac	tcacagccca	tctgatctgt	3780
tcaaagctgt	cttttccacc	tgctgaaatt	cattaaatca	ctggaggcat	gcataatgaa	3840
tggagaatga	gtgaacttcc	aatgcaactt	ggattcacaa	acccattatc	atagccaata	3900
tgcagatttt	aaacagcatt	tcacatttca	tttgaccatg	tcttcttttt	cggcatcgcc	3960
tgctgcagaa	ttccctacta	gaatgtgaaa	caacgaacaa	accacagaac	ttagagtgtg	4020
ctgggttagtc	acataactta	gtagcaggat	tgtgtatcca	ggcacaagg	tgtctttgct	4080
aatgtttctct	tgctacctgc	cctgcttcaa	acgctaaatg	gtatgggtct	ttctttgttg	4140
ccagccatat	tctacaaata	agacttttca	atatagtatt	gagtaatata	attttatgta	4200
catataatgt	tagaatattg	tacagaatct	tggtttctac	gatgcgcttt	tcttgtttca	4260
aaaagaggaa	aatgcttgat	ttttgttgat	gatacttttg	ttactgtcct	taattttcca	4320
tagtttggtt	tcttaattgt	gctcactaag	catcgatctg	tgctgatgcc	aagctatgga	4380
ctatgtaccgc	aagaccgagc	aatagacaga	gggtccctagg	gtccaaacac	actgaacgca	4440
cgtggaccgc	ctggatcagg	agcctcatca	gacctttctc	catgcacatc	cttcccaaac	4500
agtcacagat	tccattgaaa	ggagcagatt	ctatcagttc	ttctgtgcag	actttaagag	4560
ctgaacgttc	tggttctgga	agccatgtga	ctgcgcagaa	caacctaaag	aaccttttgt	4620
gtcctgaggg	gtcgttgacc	tctccttccg	ggtcggagca	gtcactctga	gggcaaagcg	4680
tgggccactg	tgtgtgatgt	tttcaggatg	ctaggggtcaa	agaaagaaac	caagtgggtac	4740
ataagcccag	cttttctgct	gggctaagtg	taagtgtgag	taacatggtc	aagccctct	4800
tttttgggct	aatgtaaagc	ctttcctgcc	ttgcattaat	gctatctccc	tgtgtactgt	4860
ttctcttaaa	tgagcagata	gaaatctgca	gtgttggcag	ataggtgatg	gagaggatga	4920
taattttatc	ttctggccac	agagctgcag	ccccagttgt	cagagtcctt	aaatgaaacc	4980
cccaaatcca	tccctccttc	cctaccccca	ctggaatatt	ctagaataag	agcactggat	5040
aagtacactt	gaacacattt	ttctaacctt	agaaaatacc	tacaaggcct	gttgtcttga	5100
cccattgctc	aattgtccct	ggcatattat	ctgatcttca	cgtttcttgg	aagcagaatc	5160
atcaaggctt	tcctttgtaa	ctgcccttcc	cgtacacagc	aggcatgaat	aaatgctgag	5220
taacagacaa	gttacagaca	ggaggggaaa	gaggaggaac	catacaactg	tttttgcaaa	5280
atgatggctg	agtccagatt	atagagggtg	ccttaccctt	agaatgttat	ttagaccaag	5340
tttagctttt	agagtccagg	tctgggtta	tgccagggtg	gcaaagaatc	gcatgcacca	5400
atgtaaacag	gagtcagaat	gcattattag	tcaaagatcg	aatttcacat	tgtagagatg	5460
tatagtctgt	attaagctgc	atatgtatgc	tgggaaacgg	cttgagtgga	tggtataat	5520
aaaagttggt	ggccataatg	ccacacctct	catctgcttg	aaatatggac	cagtattcta	5580
aaatatcagc	tactgggggtc	tcattcacta	caagataaat	tcaaacttca	cagaactttg	5640
cagcagttca	ccaccagacg	ggactgtgtc	tgcaaactct	cttgtcttca	cagacgccta	5700
ataaagcaaa	actctgaatc	tc				5722

<210> 55

<211> 4494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 024844.5

<400> 55

gacaagtcta	gagcagcact	agcgcagagt	gagactcatc	agctggcaag	caggattctg	60
tgtctctggg	ttcaggaatc	ctcaggcagc	agaggggact	tgtcctctag	cccccatcac	120
tgccccacc	cctaccctgt	taggccaccg	agtgaggccc	atggactggg	gagggctgtg	180
cctgacgact	cctgtgtccc	tctatgaggg	cccagcgccc	tgaccctcct	gcctaggttt	240
ctaccttttc	tctctgtctt	tggccagctg	ggggaggggg	tagaggccgg	gtgagcaaca	300
tggcacagag	caagatgcac	gtgtacagcc	ggacgcccag	cggcagcagg	atgagtgcgg	360
aggcaagcgc	cgggcctctg	cgggtgggct	cccgtgtaga	ggtgattgga	aaaggccacc	420
gaggcactgt	ggcctatggt	ggagccacac	tgtttgccac	tggcaaatgg	gtaggcgtga	480
ttctggatga	agcaaagggc	aaaaatgatg	gaactgttca	aggcaggaag	tacttcactt	540
gtgatgaagg	gcatggcatc	tttgtgcgcc	agctccagat	ccaggtattt	gaagatggag	600
cagatactac	ttccccagag	acacctgatt	cttctgcttc	aaaagtcttc	aaaagagagg	660
gaactgatac	aactgcaaag	actagcaaac	tgcggggact	gaagcctaag	aaggcaccga	720
cagcccgaag	gaccacaact	cggcgaccca	agccacgcgc	cccagccagt	actgggggtg	780
ctggggccag	tagctccctg	ggccccctct	gctcagcgtc	agcaggtgag	ctgagcagca	840
gtgagcccag	caccccggtc	cagactccgc	tggcagcacc	catcatcccc	acgccgggtc	900
tcacctctcc	tggagcagtc	cccccgcttc	cttccccatc	caaggaggag	gagggactaa	960

gggctcaggt	gcgggacctg	gaggagaaac	tagagaccct	gagactgaaa	cgggcagaag	1020
acaaagcaaa	gctaaaagag	ctggagaaac	acaaaatcca	gctggagcag	gtgcaggaat	1080
ggaagagcaa	aatgcaggag	cagcaggccg	acctgcagcg	gcgcctcaag	gaggcgagaa	1140
aggaagccaa	ggaggcgctg	gaggcaaagg	aacgctatat	ggaggagatg	gctgatactg	1200
ctgatgccat	tgagatggcc	acttttgaca	aggagatggc	tgaagagcgg	gctgagtcce	1260
tgcagcagga	ggtggaggca	ctgaaggagc	gggtggacga	gctcactact	gacttagaga	1320
tcctcaaggc	tgagattgaa	gagaagggtc	cagatggcgc	tgcatccagt	tatcagctca	1380
agcagcttga	ggagcagaat	gcccgcctga	aggatgcctc	ggtgagggat	cgggatcttt	1440
cttcctcaga	gaagcaggag	catgtgaagc	tccagaagct	catggaaaag	aagaaccaag	1500
agctgggaagt	tgtgaggcaa	cagcgggagc	gtctgcagga	ggagctaagc	caggcagaga	1560
gcaccattga	tgagctcaag	gagcagggtg	atgctgctct	gggtgctgag	gagatgggtg	1620
agatcgtagc	agatcggaac	ctgaatctgg	aagagaaagt	gcgcgagttg	agggagactg	1680
tgggagactt	ggaagcgatg	aatgagatga	acgatgagct	gcaggagaat	gcacgtgaga	1740
cagaactgga	gctgcgggag	cagctggaca	tggcaggcgc	gcgggttcgt	gaggcccaga	1800
agcgtgtgga	ggcagcccag	gagacggttg	cagactacca	gcagaccatc	aagaagtacc	1860
gccagctgac	cgcccatcta	caggatgtga	atcgggaact	gacaaaaccag	caggaagcat	1920
ctgtggagag	gcaacagcag	ccacctccag	agacctttga	cttcaaaatc	aagtttgctg	1980
agactaaggc	ccatgccaa	gcaattgaga	tgaattgag	gcagatggag	gtggcccagg	2040
ccaatcgaca	catgtccctg	ctgacagcct	tcattgcctga	cagcttcctt	cggcagggtg	2100
gggaccatga	ctgcgttctg	gtgctgtttg	tcattgcctg	tctcatttgc	aaggcagagc	2160
tgatccgga	gcaggcccag	gagaagtttg	aactaagtga	gaactgttca	gagcggcctg	2220
ggctgcgagg	agctgctggg	gagcaactca	gctttgctgc	tggactggtg	tactcgctga	2280
gcctgctgca	ggccacgcta	caccgctatg	agcatgcctc	ctctcagtgc	agtgtggatg	2340
tgtataagaa	agtgggcagc	ctgtaccctg	agatgagtg	ccatgagcgc	tccttggatt	2400
tcctcattga	actgctgcac	aaggatcagc	tggatgagac	tgtcaatgtg	gagcctctca	2460
ccaaggccat	caagtactat	cagcatctgt	acagcatcca	ccttgccgaa	cagcctgagg	2520
actgtactat	gcagctggct	gaccacatta	agttcacgca	gagtgtctct	gactgcatga	2580
gtgtggaggt	aggacggctg	cgtgccttct	tgcagggtgg	gcaggaggct	acagatattg	2640
ccctcctgct	ccgggatctg	gaaacttcat	gcagtgcacat	ccgccagttc	tgcaagaaga	2700
tcogaaggcg	aatggccagg	acagatgctc	ctgggatccc	agctgcactg	gcctttggag	2760
cacaggatgc	tgacacgctc	ctagactgca	ggaaacactt	gacgtgggtc	gtggctgtgc	2820
tgcaggaggt	ggcagctgct	gctgcccagc	tcattgcccc	actggcagag	aatgaggggc	2880
tacttgtggc	tgctctggag	gaactggctt	tcaaagcaag	cgagcagatc	tatgggaccc	2940
cctccagcag	cccctatgag	tgtctgcgcc	agtcatgcaa	catcctcatc	agtaccatga	3000
acaagctggc	cacagccatg	caggaggggg	agtatgatgc	agagcggccc	cccagcaagc	3060
ctccaccggg	tgaactgcgg	gctgctgccc	ttcgtgcaga	gatcacagat	gctgaaggcc	3120
tgggtttgaa	gctcgaagat	cgagagacag	ttattaagga	gttgaagaag	tcactcaaga	3180
ttaaggggaga	ggagctaagt	gaggccaatg	tgcggctgag	cctcctggag	aagaagttgg	3240
acagtgtctg	caaggatgca	gatgagcgca	tcagaaaagt	ccagactcgg	ctggaggaga	3300
cccaggcact	gctgcgaaag	aaggagaaag	agtttgagga	gacaatggat	gcactccagg	3360
ctgacatcga	ccagctggag	gcagagaagg	cagaactaaa	gcagcgtctg	aacagccagt	3420
ccaaacgcac	gattgagggg	ctccggggcc	ctcctccttc	aggcattgct	actctggtct	3480
ctggcattgc	tgggtgaagaa	cagcagcgag	gagccatccc	tgggcaggct	ccagggtctg	3540
tgccaggccc	agggctggtg	aaggactcac	cactgctgct	tcagcagatc	tctgccatga	3600
ggctgcacat	ctcccagctc	cagcatgaga	acagcatcct	caagggagcc	cagatgaagg	3660
catccttggc	atccctgccc	cctctgcatg	ttgcaaagct	atcccatgag	ggccctggca	3720
gtgagttacc	agctggagcg	ctgtatcgta	agaccagcca	gctgctggag	acattgaatc	3780
aattgagcac	acacacgcac	gtagtagaca	tcactcgcac	cagccctgct	gccaagagcc	3840
cgtcggccca	acttatggag	caagtggctc	agcttaagtc	cctgagtgac	accgtcgaga	3900
agctcaagga	tgaggtcctc	aaggagacag	tatctcagcg	ccctggagcc	acagtaccca	3960
ctgactttgc	caccttcctc	tcatacgcct	tcctcagggc	caaggaggag	cagcaggatg	4020
acacagttcta	catgggcaaa	gtgaccttct	catgtgcggc	tggttttgga	cagcgacacc	4080
ggctggtgct	gacccaggag	cagctgcacc	agcttcacag	tcgcctcatc	tcctaagcac	4140
tcctttcccc	tgtgttcccc	ttcgaccttc	agccctctgg	tgccgctctg	cccagtcac	4200
agcccaaccctc	agccagcccc	caggtagaaa	gctgggttaa	gctcttcctg	ccccgttcag	4260
cttcaactccc	accttttcag	cgtcctgccc	cttcaacttg	acccgggttc	ccccactccc	4320
attccctggc	ctctgccata	atttgttgtt	caactgctcc	ctccttcctg	aggggcctca	4380
gggcttggtg	ggggtaggct	gagacccac	caccaaaggt	taagtggagt	ccccttgatt	4440
gaggacttca	ccccttgatt	aaagcaactt	ctgcttcaaa	aaaaaaaaaa	aggg	4494

PA-0024 US

<211> 2056

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481594.7

<400> 56

```
gaggccgcgg gccccccccc gccggctagg tgaagggtgag tgtctctctcc agtcgcaacg 60
gccagacctg acctgccagc tccggggcgtg ggggtgaaatc tcttgattcc tagtctctcg 120
atatggcacc tccgtcagtc tttgccgagg ttccgcaggc ccagcctgtc ctgggtcttca 180
agctcactgc cgacttcagg gaggatccgg acccccgcga ggtcaacctg ggagtgggag 240
catatcgcac ggatgactgc catccctggg ttttgccagt agtgaagaaa gtggagcaga 300
agattgctaa tgacaatagc ctaaatacac agtatctgcc aatcctgggc ctggctgagt 360
tccggagctg tgcttctcgt cttgcccttg gggatgacag cccagcactc aaggagaagc 420
gggtaggagg tgtgcaatct ttggggggaa caggatgcact tcgaattgga gctgatttct 480
tagcgcgttg gtacaatgga acaacaacac agaacacacc tgtctatgtg tccctaccaaa 540
cctgggagaa tcacaatgct gtgtttttccg ctgctgggtt tagagacatt cggtcctatc 600
gctactggga tgcagagaag agaggattgg acctccaggg cttcctgaat gatctggaga 660
atgctcctga gttctccatt gttgtctctc acgcctgtgc acacaacca actgggattg 720
acccaactcc ggagcagtgg aagcagattg cttctgtcat gaagcacggg tttctgttcc 780
ccttctttga ctcagcctat cagggtcttc catctggaaa cctggagaga gatgcctggg 840
ccattcgcta ttttgtgtct gaaggcttcg agttctcttg tgcccagtc tctctcaaga 900
acttcgggct ctacaatgag agagtcggga atctgactgt ggttggaata gaacctgaga 960
gcactctgca agtcctttcc cagatggaga agatcgtgcg gattacttgg tccaatcccc 1020
ccgcccaggg agcacgaatt gtggccagca cctctcttaa cctgagctc tttgaggaat 1080
ggacaggtaa tgtgaagaca atggctgacc ggattctgac catgagatct gaactcaggg 1140
cacgactaga agccctcaaa acccctggga cctggaacca catcactgat caaattggca 1200
tgttcagctt cactgggttg aaccccaagc aggttgagta tctggtcaat gaaaagcaca 1260
tctacctgct gccaaagtgt cgaatcaacg tgagtggctt aaccaccaa aatctagatt 1320
acgtggccac ctccatccat gaagcagtea ccaaaatcca gtgaagaaac accaccgctc 1380
cagtaccacc aaagtagttc tctgtcatgt gtgttccctg cctgcacaaa cctacatgta 1440
cataccatgg attagagaca cttgcaggac tgaaaggctg ctctggtgag gcagcctctg 1500
tttaaaccgg ccccatatga agagaacatc ccttgagacg aatttgagga ctgggattag 1560
agcctttgga ggtcaaagca aattaagatt tttatttaag aataaaaagag tactttgatc 1620
atgagacata ggtatcttgt cctctcact aaaaaggagt gttgtgtgtg cgggccacgt 1680
gcttctatgt ggtgtttgac tctgtacaaa ttctagtccc aaagatcaag ttgtctgaag 1740
gagccaaagt gtgaatgtgg gtgtcggctg cggcattaaa ttcacatct caaccagag 1800
tgtctgggtc cctgctctt tctgcatggt tgtgtcccta gtcctaagct ttgggtcttt 1860
aggggtgactg tggtagaag gatatttaac catgacatgc acggacacgt acatatttaa 1920
ctgaaacaag ttttaccaaa cagtatttac tctgtagtg cgtagtgcat tctgatattt 1980
ttgagccatt ctattgtgtt ctacttcacc taaaaaata aaataaaaat gttgatcaag 2040
aaaaaaaaaa aaaagg 2056
```

<210> 57

<211> 6268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 453592.3

<220>

<221> unsure

<222> 2956, 4230-4252, 4825-4887

<223> a, t, c, g, or other

<400> 57

```
catcagcggg cgggggtgtc gccgaacagg ctgctccgca gagcccgcgg cgaccccgcg 60
```

```

ccgccccgcc ccgcgccctg cctgccagag gagccgaggg ggccgcccct cgcccaacct 120
gccccgacatg gggaaccccc ggcccaggcg tgctgggtcac catgacaaca gagacaggcc 180
ccgactctga ggtgaagaaa gctcaggagg aggccccgca gcagcccag gctgctgccg 240
ctgtgaccac ccctgtgacc cctgcaggcc acggccaccc agaggccaac tccaatgaga 300
agcatccatc ccagcaggac acgcgccctg ctgaacagag cctagacatg gaggagaagg 360
actacagtga ggccgattggc ctttcggaga ggaccacgcc cagcaaggcc cagaaatcgc 420
cccagaagat tgccaagaaa tacaagagtg ccatctgccg ggtcactctg cttgatgcct 480
cggagtatga gtgtgaggtg gagaacatg gccggggcca ggtgctgttt gacctggtct 540
gtgaacacct caacctccta gagaaggact acttcggcct gaccttctgt gatgctgaca 600
gccagaagaa ctggctggac ccctccaagg agatcaagaa gcagatccgg agtagccctt 660
ggaattttgc cttcacagtc aagtcttacc cgctgatcc tgcccagctg acagaagaca 720
tcacaagata ctacctgtgc ctgcagctgc gggcagacat catcacgggc cggtgccat 780
gctcctttgt cagcgtggcc ctactgggct cctacgctgt gcaggctgag ctgggtgact 840
atgatgctga ggagcatgtg ggcaactatg tcagegagct ccgcttcgcc cctaaccaga 900
cccgggagct ggaggagagg atcatggagc tgcataagac atataggggg atgaccccg 960
gagaagcaga aatccacttc ttagagaatg ccaagaagct ttccatgtac ggagtagacc 1020
tgcaccatgc caaggactct gagggcatcg acatcatgtt aggcgtttgt gccaatggcc 1080
tgctcatcta ccgggacggg ctgagaatca accgctttgc ctggcccaag atcctcaaga 1140
tctcctacaa gaggagtaac ttctatatca agatccggcc tggggagtat gagcaatttg 1200
agagcacaat tggctttaag ctcccaaacc accggtcagc caagagactg tggaaggctt 1260
gcacagagca tcatacttc ttccggctgg tgtccctga gccccaccc aagggtcttc 1320
tggtgatggg ctccaagttc cggtagagtg ggaggacca ggcacagact cgccaggcca 1380
gcgccctcat tgaccggcct gcacctttct ttgagcgttc ttccagcaa cggtacacca 1440
tgtcccgagc ccttgatgga gcagagttct ccgcccagc ctcggtcagc gagaacctat 1500
atgcaggggc tgacggtgac aagcgggatg aggtggcga gtctgggggg caacggtcag 1560
aggctgagga gggagaggtc aggaactcaa ccaagatcaa ggagctaaag ccggagcagg 1620
aaaccacgcc gagacacaag caggagttct tagacaagcc agaagatgtc ttgctgaagc 1680
accaggccag catcaatgag ctcaaaagga ccctgaagga gcccaacagc aaactcatcc 1740
accgggatcg agactgggaa cgggagcgca ggctgccctc ctccccgcc tccccctccc 1800
ccaagggcac ccctgagaaa gccaatgaga gaggagggtc gagggagggc tccgaggaga 1860
aagtcaaaacc accacgtccc cgggcccag agagtgcac aggcgatgag gaccaggacc 1920
aggagagggg cacggtgttc ctgaaggaca accacctggc cattgagcgc aagtgtctcc 1980
gcacacgggt cagctctacg tctagcctgg aggtgaggt ggacttcacg gtcattggtg 2040
actaccatgg cagcgcttc gaagacttct cccgcagcct gcctgagctc gaccgggaca 2100
aaagcgactc ggacactgag ggctgctgt tctcccgga tctcaacaag ggggccccca 2160
gccaggatga tgagtctggg ggcattgagg acagcccga tcgaggggcc tgctccacc 2220
cggatatgcc ccagtttgag cccgtgaaaa gaggccgtac tgcagaccag agtctccgct atggataaca 2340
cccagcaggt tgatgggagt gcctcagtgg ggaggaggt catagcaacc actccctcca 2400
tcaccacgga gaccatatcg accaccatgg agaacagtct caagtccggg aagggggcag 2460
ctgccatgat ccaggccca cagacggtgg ccacggaaat ccgttctctt tctccgatca 2520
tcgggaaaga tgcctcacc agcacctaag gcgccactgc ggaaaccctc tcaacctcca 2580
ccaccaccca tgtaccaaa actgtgaaag gggggttttc tgagacaagg atcctggcagc 2640
gaatcatcat tactggggat gaagatgtcg atcaagacca ggccctggct ttggccatca 2700
aggaggccaa actgcagcat cctgatatgc tggtaaccaa agctgtcgta tacagagaaa 2760
cagacccatc ccagaggag agggacaaga agccacagga atcctgacct ctgtgaagag 2820
atcctggcat ttctggtcca acccaagcca gagaaccatt aagaaggggc cttcattctg 2880
gattctccga cgcaacactg acgtcccagc tgcgacgtac tgtcactgat gagagactgg 2940
gaagggaaaa gcatanatat atagatatat agagatatag atatataac aggaaacacc 3000
gcacctctgc actgctgctg gggctggcag agcagttggc tgacagcaac aaccgacatc 3060
tgaacacctc catttcttt gcagacaaat tgaagaactg gtgggatttt tttcaagaaa 3120
aaaaattata taataactat aatcccttgc tcacccttt ccccgccaa ataagaaacg 3180
caagccagac cacgatgatt gtagaagtc ctcccgccct ggttctgcac gttacagtta 3240
gcagacagc aattccattt gttcttctcc agcatctcta aggccactt gaatgcaaag 3300
gaaacacactt gcaagagaa gcaagagaag tcacagcagc aagacacgca cagtcaacca 3360
ttttccgaga aaaaaagaaa attccccact tggaaagaaa gaggaggaa actggattct 3420
tactttctgg atcttgacac tgggctgcaa aacctacctt cctctctccc gcctccctc 3480
acctcaact ctcaatgtct tgctgtcatt ttctgtctcg gctccctcct ccccttccc 3540
ccttccccca cccacacccc ttcacctct gtgtcctgg ccttctgagg gccactgcag 3600
atgactctcc tttgaaatga gaaaaagaaa agaaagcaag aacagaaaac gaagccacag 3660
gaagggaagt agacattgta tgcttatggt ttctcattat gaaggtgcag cttgtaggag 3720

```

```

gtttgtacgg atgtgctttg aagttatgta tattacatat aacaggaaaa aatattaaaa 3780
taaacagtgc tggtaagtat gaagctgaca ttctaaaatt ataattatct gactgtgatt 3840
gatgtatcct gaggttccta gatctcactg aactggccca gctaaggaga cctggactct 3900
gggtgtgggt tggctcacag taggggctga cgggttcagt gtagtaatac tgtgtgtgg 3960
gtttgtaatt ggttgattgg tggggagggg tggggggccc taatggagag gtgtgggttt 4020
ggcaagaaag aagcaacaca gatgtcgtcc ccaaaatgcc agttcaagac acctctccc 4080
tgccccctg gtagtaacag tcagggcctg gtctgtgctc aggtactggg tccagttctg 4140
ggactctgct gctgaagttg ccacagtaga ggteccctggc ttagtcctta tctccctacg 4200
gggcttgcc tggttttcag tcttctctcn nnnnnnnnnn nnnnnnnnnn nngccacatt 4260
ctgcccttcc ctgaccccat tgtaataacc aactccatat ccaaagggag gtggtgctct 4320
cagccattgt agaagatggg ggctttaacc tgactgtcta aaaattccca gctaagcctt 4380
ttctctact ctcttccttg ttctgaatca tttcttcttc tcaggccaaa gtagecattg 4440
taaggaggct tcattggggc gacctgaaa gatcaaaact gcatttgcaa agccctcccc 4500
tgtcccagga caaagctgag actgacgggt gatgttgctc ataggctcca gctctgcata 4560
agaccttggc ttggagacct cctctcagt caacagctga actctgagct tgtgccaga 4620
aattacccca agaccacagg aaccttcaa gaagctccca tcacaagctt ggcattgctc 4680
tctgccacac gtgggcttcc tcaggcttgt ctgccacaag ctacttctct gagctcagaa 4740
agtggccctt gatgaggga aatgtccca tgcactgcga atttctcagt tccattttac 4800
ctcccagttc tccttctaaa ccagnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 4860
nnnnnnnnnn nnnnnnnnnn nnnnnntga agaaggtggg aggggagggc ggaacctgag 4920
gagccacctg agccagcttt atatttcaac catggctggc ccatctgaga gcatctcccc 4980
actctcgcca acctatcggg gcatagccca gggatgcccc caggcggccc aggttagatg 5040
cgtccctttg gcttgtcagt gatgacatac accttagctg cttagctggg gctggcctga 5100
ggcagggcag gaaatcagaa tagcatttgc ttctctgggc aaatgggaag ttcagcgggg 5160
cagcagaatc agtggcattc cccctgggtg aggcgggtgg gtccactcca actccccctg 5220
agtgtagcag cacactttcc atacaccagg ttctttctac aatcctgggtg gaaaagccac 5280
agaaccttct tcttgccctt cttgagagtt cccctcttt ctgggtcaag agctggagtg 5340
gtgggtccat cctctctggg ccacttcggg ctaggaaactc atctttgcag gaaccaggag 5400
tcctgagcac actgaacaca cctcagaggg aggatccttg ttgtggattt tgcacctggc 5460
tttggggcag ggtgaagtg accaggctta gcttgtggag tttatgggcc accagggttt 5520
ggggaaatca ccatcccgcg gatgtgtgta cctcccttct acggagatgc aggcagtgcc 5580
acgagggagg aggggacctg caaagctaga atctagggca ctgtttcttc cccatccttc 5640
tctttgtaga gaatagagac gtttgtcttg tctgtcttca acctactttt ctttttctct 5700
tttttgtttc tcactctctc tgtgccacct ctccaccag gaggccatgt agcatagtgg 5760
aaaaagtccc tgagggcggg taggagttct ggggtgacct cctggctcag ctccctaactc 5820
accatgtgac atcaggctat cccatttccc cctcttgggc ctgatttcc cgacttgcaa 5880
aataagcaga aagaaccaga tgctctccag ggtctttttc tactttgcta tctcatgggt 5940
cttcattttc tcttattttg ttttctctgg atcttttcca tctgagggta caggaagtac 6000
caggacctgt ttcagttttt gaatcctgca agcacattcc aagactggcc tgaaactgca 6060
tgagcaacat cactcgaaat aatttttttt ttcaaaagca ccttaacaac caattgcat 6120
gctgtcctgt tcctttttac tcacaccctt ctctcctttc tcgtcccat gctccccac 6180
ctcagtgtc cgtgtgtat gcgtgtgctc tctgttcttg tatactcaat ataagtga 6240
taaagtgtt tgatgctgaa ccataaaa 6268

```

<210> 58

<211> 2637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 127112.18

<400> 58

```

ggaggctacg aaacttgggg gagtgcacag aagaacttcg ggagcgcacg cgggaccagg 60
gaccaggctg agactcgggg cgccagtcgg ggcaggggca gcgggagccg gccgggtagg 120
gtgcagcctg aggttgttcc agcagaacag gtgcaagcca cattgttgcc aagacctgcc 180
tgaagccgga ttctccccac tgcctccttc aaccccgccct ctctcctctc ctgtgggact 240
gctccccctt cctgtgaggg tagatagatg ccctgtatcc aagcccaata tgggacacca 300
gcaccgagtc cgggaccccg tgaccacctg gcaagcgacc ccctgacccc tgagttcacc 360
aagcccacca tggacctggc cagccccgag gcagcccccg ctgccccac tgccctgccc 420

```

PA-0024 US

```
agcttcagca ccttcattgga cggctacaca ggagagtttg acaccttctt ctaccagctg 480
ccaggaacag tccagccatg ctctctcagcc tctctctcgg cctctctccac atcctcgtcc 540
tcagccacct cccctgcctc tgcttccttc aagttcgagg acttccaggt gtacggctgc 600
taccgccggc cctgagcgg cccagtggtat gagggcctgt cctccagtgg ctctgactac 660
tatggcagcc cctgctcggc cccgtcgcgc tccacgcca gcttccagcc gccccagctc 720
tctccctggg atggctcctt cggccacttc tgcgccagcc agacttacga aggcctgcgg 780
gcatggacag agcagctgcc caaagcctct gggcccccac agcctccagc cttcttttcc 840
ttcagtcctc ccaccggccc cagccccagc ctggcccaga gccccctgaa gttgttcccc 900
tgcacaggcc acccaccagc tgggggaggg agagagctat tccatgccta cggccttccc 960
aggtttgcca cccacttctc cacaccttga gggctcgggg atactggata caccctgac 1020
ctcaaccaag gcccgagcgg gggccccagg tggaaagtga ggccgctgtg ctgtgtgtgg 1080
ggacaacgct tcatgccagc attatggtgt ccgcacatgt gagggctgca agggcttctt 1140
caagcgacac gtgcagaaaa acgccaagta catctgcctg gctaacaagg actgccctgt 1200
ggacaagagg cggcgaaacc gctgccagtt ctgcgccttc cagaagtgcc tggcgggtgg 1260
catggtgaag gaagtgtgcc gaacagacag cctgaagggg cggcgggggc ggctaccttc 1320
aaaacccaag cagccccagc atgcctcccc tgccaatctc ctacttccc tggctcgtgc 1380
aacacctgga ctccaggggccc cagcactgcc aaactggact actccaagtt ccaggagctg 1440
gtgctgcccc actttgggaa ggaagatgct ggggatgtac agcagttcta cgacctgtc 1500
tccggttctc tggaggtcat cgcgaagtgg cgcgagaaga tccctggctt tgctgagctg 1560
tcaccggctg accaggacct gttgctggag tggccttcc tggagctctt catectccgc 1620
ctggcgctaca aggtctaagc caggcgaggg caagctcatc ttctgctcag gcctggtgct 1680
acaccgggct gcagtgtgcc cgtggcttcg gggactggat tgacagtatc ctggccttct 1740
caaggtccct gcacagcttg cttgtccgat gtccctgctt tgcctgctt ctctgccctt 1800
gtcctcatca cgcaccggca tgggtgcag gagccgcggc ggtggagga gctgcagaac 1860
cgcatcgcca gctgcctgaa ggagcacgtg ggcagctgtg gcgggcgagc ccagccagc 1920
cagctgcctg tcacgtctgt tgggcaaaact gcccagctg cggacctgt gcaccagg 1980
cctgcagcgc atcttctacc tcaagctgga ggacttggtg cccctccac ccatcattga 2040
caagatcttc atggacacgc tgcccttctg acccctgctt gggaacacgt gtgcacatgc 2100
gcactctcat atgccacccc atgtgccttt agtccacgga ccccagagc accccaagc 2160
ctgggcttga gctgcagaat gactccacct tctcacctgc tccaggaggt ttgcagggag 2220
ctcaagccct tggggagggg gatgccttca tgggggtgac cccacgattt gtcttatccc 2280
ccccagcctg gccccggcct ttatgttttt tgtaagataa accgttttta acacatagcg 2340
cogtgcgtga aataagccca gtgctgctgt aaatacagga agaaagagct tgaggtggga 2400
gcggggctgg gaggaaggga tgggccccgc ctctctgggc agcctttcca gcctcctgct 2460
ggctctctct tctaccctc ctccacatg tacataaact gtcactctag gaagaagaca 2520
aatgacagat tctgacattt atatttgtgt attttcctgg atttatagta tgtgactttt 2580
ctgattaata tatttaatat attgaataaa aaatagacat gtagttggaa ctgaaaa 2637
```

<210> 59
<211> 1408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 127112.16

<220>
<221> unsure
<222> 112-252, 1365
<223> a, t, c, g, or other

```
<400> 59
accgcactta cccaaccagc gccttggtca agaaagagca cataactgcc cccagaacc 60
cattattgtg ccccttcca gtcatttgc ccccccaagg gtaaccacta cnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn ncttctactg tgacttctga cagtgcagat cagattggtt gtgcctgttt 300
tggactttat gtaaagttag ttctgcagga tggaaatctg tggtgaatgc agagggtttt 360
agatttctct gttttttaa ggaaagaatc caccctcggt cattttttca cttaaattgc 420
acaggggacc caacgatata gaacacaatc agagggtact tgggctgagg gagtgtgag 480
```

PA-0024 US

```
ttctgagget gggttttctca gaacagtctc gatttttaaaa acccaatgat ctagccagaa 540
aacgtagggt aggattttat ttctgttttg tgaccttggg caagtcatta gcctcctggg 600
cctcgggttc tcaacttgag tatgaggata atgagggtta ctgcttctca gacttggtgac 660
gatgcttact aatggccaac atgtgaatgc gctttttgtga aatgccagca gagcatgagg 720
ggtggtcagg ggcagcagtt ttaggggcct gggggagggt ggggcttttg gggcctgggt 780
ctcagatgta cagctaattc tgtaccttc ccgcagaccg gcatggggct gcaggagccg 840
cggcgggttg aggagctgca gaaccgcac gccagctgcc tgaaggagca cgtggcagct 900
gtggcggggc gagccccagc caggccagct gcctgtcacg tctgttgggg caaactgccc 960
gagctgcgga ccctgtgcac ccagggcctg cagcgcacgt totacctcaa gctggaggac 1020
ttggtgcccc ctccaccat cattgacaag atcttcatgg acacgctgcc cttctgacct 1080
ctgcctggga acacgtgtgc acatgcgcac tctcatatgc caccctatgt gccttttagtc 1140
cacggacccc cagagcacc ccaagccttg ggcttgagct gcagaatgac tccaccttct 1200
cacctgctcc aggaggtttg gcaggagct gaagcccttg gggaggggga tgccttcatg 1260
ggggtgacct cagcatttgt cttatcccc ccagcctggc ccccgccctt tatgtttttt 1320
gtaagataaa ccgtttttta cacatagcgc cgtgctgtaa ataanccag tgctgctgta 1380
aatacaggaa gaaagagctt gaggtgga 1408
```

<210> 60

<211> 1756

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 347786.12

<400> 60

```
cacgaagggg acgtgggaaa gtgttagcgg ggaacgctgg gaaactcccg gcctccgcca 60
ccatcttget ttcttttaat ccggcagtg cctgtgtgta gaacaatctt gaatcatgaa 120
gtaactaacc agagccggct ctttctcgag attttattcc ctcaaagttg cccccaagt 180
taaagccaca gctgcgcctg caggagcacc gccacaacct caggaccttg agtttaccaa 240
gttaccaaat ggcttggtga ttgcttcttt ggaaaactat tctcctgtat caagaatttg 300
ttgtttcatt aaagcaggca gtagatatga ggacttcagc aatttaggaa ccaccattt 360
gctgcgtctt acatccagtc tgacgacaaa aggagcttca tctttcaaga taaccctgg 420
aattgaagca gttggtggca aattaagtgt gaccgcaaca agggaaaaca tggcttatac 480
tgtggaatgc ctgcgggggt atgttgatat tctaattggag ttctgtctca atgtcaccac 540
agcaccagaa tttcgtcgtt gggaagttag tgaccttcag cctcagctaa agattgacaa 600
agctgtggcc tttcagaatc cgcagactca tgtcattgaa aatttgcag cagcagctta 660
ccggaatgcc ttggctaate ccttgatttg tctgactat aggattggaa aagtgcacac 720
agaggagtta cttacttctg ttcagaacca tttcacaagt gcaagaatgg ctttgatttg 780
acttggtgtg agtcacctctg ttctaaagca agttgtctga cagttttctc acatgagggg 840
tgggcttggt ttatctgggt caaaggccaa ctaccgtgga ggtgaaatcc gagaacagaa 900
tggagacagt cttgtccatg ctgcttttgt agcagaaagt gctgtcgcgg gaagtgcaga 960
ggcaaatgca tttagtgttc ttcagcatgt cctcgggtgt gggccacatg tcaagagggg 1020
cagcaacacc accagccatc tgcaccaggc tgttgccaag gcaactcagc agccatttga 1080
tgtttctgca tttaatgcca gttactcaga ttctggactc tttgggattt atactatctc 1140
ccaggccaca gctgctggag atgttatcaa ggctgcctat aatcaagtaa aaacaatagc 1200
tcaaggaaac ctttccaaca cagatgtcca agctgccaag aacaagctga aagctggata 1260
cctaattgtc gtggagtctt ctgagtgttt cctggaagaa gtcgggtccc aggtctagt 1320
tgctggttct tacatgccac catccacagt ccttcagcag attgattcag tggctaattg 1380
tgatatcata aatgcggcaa agaagtttgt ttctggccag aagtcaatgg cagcaagtgg 1440
aaatttgagg catacacctt ttgttgatga gttgtaatac tgatgcacac attacaggag 1500
agagctgaac gttctctcag ccagagcag caaacacatg aaagtcagaa gtctctaata 1560
tatcatttgt cttttttcca gtgaggtaaa ataaggcata aatgcaggta attattccca 1620
gctgacctaa agtcaataaa acattctgtt taagtgtttt tcttacgttt ttctcaatga 1680
gttaatcaca acgtatttat tatgtgctga tatctttgtt ttagatcttt aaagctttcc 1740
agcacactgc gccgta 1756
```

<210> 61

<211> 3911

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 166400.9

<400> 61

```

gaggcggtcca cggaagacct ccatgagaag gtgaccttgg cataaagagg caaacgtggg 60
agcatgctca ggcagaccac ggtgggtcaga agttgaattc aggccggagg aggaggagt 120
catgaagccc ccagaatttt cccactgtaa aaaaccgagc aagtctggat aagtgaggct 180
ggctccatgt atccagaatc aacgacgggc tccccggctc ggctctcgct gcggcagacg 240
ggctcccccg gcatgatcta cagtactcgg tatgggagtc caaaagaca gctccagttt 300
tacaggaacc tgggcaagtc tggcctgcgg gtctcctgcc tgggacttgg aacatgggtg 360
accttcggag gccagatcac cgatgagatg gcagagcagc tcatgacctt ggctatgat 420
aatggcatca acctcttcga tacagcagaa gtctacgcag ccggcaaggc tgaagtggta 480
ctgggaaaca tattaagaa gaaaggatgg agggcggtcca gcctcgtcat caccaccaag 540
atcttctggg gcggaaaggc ggagacggag cggggcctgt ccaggaagca cataatcgaa 600
ggctctgaaag ctctccctga gcgactcgag ctggagtacg tggatgtggt gtttgccaac 660
cgccccgacc ccaacacccc gatggaagag accgtccgcg ccatgaccca cgtccaac 720
caggggatgg ccatgtactg gggcacgtca cgtggagct ccatggagat catggaggcc 780
tactccgtgg ccgggcagtt caacctgacc ccgccatct gcgagcaggc tgagtaccac 840
atgttccagc gtgagaaagt ggaggtgcag ctgccggagc tgttccacaa gataggagt 900
ggcgccatga cctggtcccc tctggcctgt ggcatgttt ctggcaagta cgacagtggc 960
atcccaccct actcaagagc tctcttgaag ggctaccagt ggctgaagga caagatcctc 1020
agtggaggag gccggcgcca gcaagccaag ctgaaggagc tgcaggccat cgccgagcgc 1080
ctgggctgca cctgccccca gctggccata gcctggtgcc tgaggaatga gggagtccgc 1140
tccgtgctcc tgggggcctc caatgcggac cagctcatgg agaacttgg ggcaatacag 1200
gtccttccga aactgtcgtc ttccattatc cagagatttg atagtatttt gggcaataaa 1260
ccctacagca aaaaggacta cagatcctaa gccgcccccg ccgcctgct cggacagttt 1320
ccgttccctc ctagtctctg tctgctcgct taagctgttt tgaagccaag tgaagagtgt 1380
ggtttgcctc caagagaaaa caccacactg tgatgtcctc gggaaatgat ctcccaagtc 1440
gctgccagac accaccact gcttcgcggg acaatgtcga agtccagtct gtgccgggga 1500
aggcactggg taggaaggat gttcaaaccg tcccacccaa gcctgtcacc tctgtctcct 1560
ctccaagacc acccagcttt ctcccagcca cagccaagat tcccaaagtc aaggcccaaa 1620
gatttccaag gttcccaaag tcaaggccag gccaaaggcct ggttgggtcc ttggggcggg 1680
caggggcagc ctctcctctg ctgagaatcc ccacttgggt tagggggaga ggggaaaggg 1740
gtctggccca tgcaggggcc ccttctgcca gggccttggg tgctggggca gggcctcccc 1800
actgggggtc ttctccacc tcccactttc caagggtcc aggaatctgg ggctgacca 1860
cagattctc tccatcctt ttctgtctca acctgcccc ctgggtcccg gcaggggcca 1920
tgcttaccaa gctcgagctg gcccttgacc cccaccacc cccacccttg ctggcagggg 1980
cagggacccc agggggattg actctgcagt ttgggagcca caaaaagcgt agcgggtgtga 2040
tttctagctc agcctcccac cgtcttctc ctacacacca atgatgagcc tcatgccagt 2100
gagggccgga gccttggga ggggtcccag tgggcagcgc ccctctgtct ggcctccct 2160
ctgtcctggc ccggaaggc cctgtggtca tgtgtctcta gctgcacggg ggctgtctggc 2220
cacaccacgg caagtggcag caggggcccg ccctgtgcac aaggatgcac tctctcggc 2280
ccctgtagac tttctctaaa gccgcccgc agcccaggcc gctgctctgc accgagctgg 2340
tgggcttggg tttgtggag cgcattgtg gaccctttca gtaaggaagg gtctttgggg 2400
tttctgtgc ccatgacttg ggggtgcac cccacagca ccccaaat gtaggaaaag 2460
acctcaggga acctctccct ggaaagacgg gcagggtgg ttagccctc cactgcctg 2520
acacctggga caggctgggc agaggggaga gagggcagga caggccagag tgacgcccc 2580
gtgcagcttg ggccggagg caagggatgc cagtaagtct gcaggtgcgg ggtgccacct 2640
acaggcccag gcctgtgtcc caagcagtac ccaggctttg cagaccacgc ggggcagggc 2700
tccactgaag ccacccccac ccctcgccag ctagctccat agggaaagcct gtgtctcctg 2760
ccccagggc gcacctcag tgcaggcacc ctgttcccc ctttgccct ggaggagcca 2820
ctattccaga aggtccacc ctgcgtcct cggggagcct gctgtccagt cctggcgcg 2880
gccaaggcct gggaaactgt gaaagtcaga aaggccagcg gggagaggct ggggcagggg 2940
gaggaggggg atcagcttct gctattaccg accccccttc atgctgcccc tggcgctag 3000
aacccttgcc cctctcata gaccaagtcc cgggggtctc cactcagtc tgctgcctgc 3060
ttcaccagaa gcagccctgt gagtgtgggg tggggaagtc ccttcccaac ggaggtccca 3120
gcctatggcc ctgggcccag gtgggggtcg cctgcttcc tcccgacag ggtcctgcag 3180
tggccaatgg tgccagagg caggtggccc accctgcgcg tcagggaggg tggctggccc 3240

```

PA-0024 US

catccccact	gccaccacgc	cccaccacact	gttgggaagag	ggaccagcgc	gaggtggtgc	3300
ccaggggtggg	cactgctgct	taatgcgagg	cacacctggg	gcagctgagc	ccccgaagg	3360
ctgcggtgtt	gccaaacaca	gagaggccag	gccccagtgt	caggatgcag	tcagcctctg	3420
gcgagctct	ttccacgacc	tggttctctg	atgtcctgct	tgctccacac	ccatctacag	3480
ggaggatgtg	agggggctct	gcctcctagg	gccagggtccc	ccctctcggg	aggggggtatt	3540
gggtaggacc	atccaagaaa	gggcagaaga	ccaagggcag	tcgggggtcta	gaaaggagg	3600
cgctggccct	gctgggcgct	tcggagcccc	cactgtttcc	cactcagctt	tgtgctcaga	3660
tcccagggtcc	caaggagtga	caggggcttc	ctcccacctt	ctgtccttgt	ccagtcattgt	3720
aaataatgtg	ctatttctct	ccccgagtct	ttttttttaa	aacctaccgt	ggttcctcag	3780
ctaactgcat	tccttaccga	ggcagagact	gtcctatgcc	tcgagcttcc	aaacgagact	3840
cagaccgcga	cacagccacc	gtattttatgg	aatgacaaaa	taaataaagc	ccaaacccat	3900
cgggtctctgt	g					3911

<210> 62

<211> 2421

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 413497.15

<400> 62

ctgcctcttt	ttccttcccc	ccgtgccccg	cgcccgggcc	ggggcagccg	ggaagcgggt	60
gggggtggtgt	gttaccacgt	agctcctggg	acatcgctcg	ggtacgctcc	acgccgtcgc	120
agccactgct	gtggtcgccg	gtcggccgag	gggcccgcgat	actggttgcc	cgcggtgtaa	180
gcagaattcg	acgtgtatcg	ctgccgtcaa	gatggagggg	cctttgtccg	tgttcgggtga	240
ccgcagcact	ggggaaacga	tcgcgtccca	aaacgttatg	gctgcagctt	cgattgccaa	300
tattgtaaaa	agttctcttg	gtccagttgg	cttgataaaa	atgttggtgg	atgatattgg	360
tgagtataaa	attactaacg	atggtgcaac	cattcctgaag	ttactggagg	tagaacatcc	420
tgcagctaaa	gttctttgtg	agctggctga	tctgcaagac	aaagaagtgt	gagatggaac	480
tacttcagtg	gttattattg	cagcagaact	cctaaaaaat	gcagatgaat	tagtcaaaca	540
gaaaattcat	cccacatcag	ttattagtgg	ctatcgactt	gcttgcaagg	aagcagtgcg	600
ttatatcaat	gaaaacctaa	ttgttaaacac	agatgaactg	ggaagagatt	gcctgattaa	660
tgctgctaag	acatccatgt	cttccaaaaa	cattggaata	aatggtgatt	tctttgctaa	720
catggtagta	gatgctgtac	ttgctattaa	atacacagac	ataagaggcc	agccacgcta	780
tccagtcAAC	tctgttaata	ttttgaaagc	ccatggggaga	agtcaaatgg	agagtatgct	840
catcagtgcc	tatgcactca	actgtgtggg	gggatcccag	ggcatgcccc	agagaatcgt	900
aaatgcaaaa	attgcttgcc	ttgacttcag	cctgcaaaaa	acaaaaatga	agcttggtgt	960
acaggtggtc	attacagacc	ctgaaaaact	ggaccaaatt	agacagagag	aatcagatat	1020
caccaaggag	agaattcaga	agatcctggc	aactggtgcc	aatgttattc	taaccactgg	1080
tggaaattgat	gatattgtgc	tgaagtattt	tgtggagggt	ggtgctatgg	cagttagaag	1140
agttttaaaa	agggacctta	aacgcattgc	caaagcttct	ggagcaacta	ttctgtcaac	1200
cctggccaat	ttggaagggt	aagaaacttt	tgaagctgca	atgttggggac	aggcagaaga	1260
agtggtacag	gagagaattt	gtgatgatga	gctgatctta	atcaaaaata	ctaaggctcg	1320
tacgtctgca	tcgattatct	tacgtggggc	aaatgatttc	atgtgtgatg	agatggagcg	1380
ctctttacat	gatgcacttt	gtgtagtgaa	gagagttttg	gagtcaaaat	ctgtggttcc	1440
cgggtgggggt	gctgtagaag	cagcccttcc	catatacctt	gaaaactatg	caaccagcat	1500
gggggtctcgg	gaacagcttg	cgattgcaga	gtttgcaaga	tcacttcttg	ttattcccaa	1560
tacactagca	gttaatgctg	cccaggactc	cacagatctg	gttgcaaaat	taagagcttt	1620
tcataatgag	gccaggttta	acccagaacg	taaaaatcta	aaatggattg	gtcttgattt	1680
gagcaatggt	aaacctcgag	acaacaaaaca	agcaggggtg	tttgaaacca	ccatagttaa	1740
agttaagagt	ttgaaatttg	caacagaagc	tgcaatcacc	attcttcgaa	ttgatgatct	1800
tattaaatta	catccagaaa	gtaaagatga	taaacattgga	agttatgaag	atgctgttca	1860
ctctggagcc	cttctgattt	gatctgatgt	tccttttatt	tataacaatg	ttaatgtcaa	1920
ttgtcttgta	ccttgagttg	agtattacac	attaaagtaa	agtacaagct	gtaaacttgg	1980
gttttttgta	tgtaggaaat	ggtttccatc	tgtacttttg	tcctctgatt	tcacatattg	2040
caacctagta	ctttattagt	ttaaaaagaa	attgaggttg	ttcaaagttt	aagcaattca	2100
ttctctctga	acacacattg	ctattcccat	cccccccca	atgcacaggg	ctgcaacacc	2160
acgacttctg	cccattctct	ccagtgtgtg	taacaggggtc	acaagaattc	gacagccaga	2220
tgtcccaaga	gggtggccca	aggctatagc	ccctccttca	atattgacct	agcggggggag	2280

PA-0024 US

```
aaaagattta gattgtttat ttttctgtgg acacagttta aaatcttaaa cttgtctttt 2340
tcctcttaat gtatcagcat gctacccttt caaactcaaa ttttcatttt aactgcttag 2400
gaataaattt acacctttgt g                                     2421
```

<210> 63

<211> 3505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 263336.12

<400> 63

```
ggtaggtcgt ggtctgaggc cggtagagct gcgcgtctgc gggaataggt gcagcggggcc 60
cttggcgggg gactctgagg gaggagctgg ggacggcgac cctaggagag ttctttgggg 120
tgactttcaa gatggactct actctaacag caagtgaat cccggcagcga tttatagatt 180
tcttcaagag gaacgagcat acgtatgttc actcgtctgc caccatccca ttggatgacc 240
ccacttttgc ttttgccaat gcaggcatga accagtttaa acccattttc ctgaacacaa 300
ttgacccatc tcaccccatg gcaaagctga gcagagctgc caatacccag aagtgcattc 360
gggctggggg caaacataat gacctggacg atgtgggcaa ggatgtctat catcacacct 420
tcttcgagat gctgggctct tgggtctttt gagattactt taaggaattg gcatgtaaga 480
tggtcttggg actcctcacc caagagtttg gcattcccat tgaaagactt tatgttactt 540
actttggcgg ggatgaagca gctggcttag aagcagatct ggaatgcaa cagatctggc 600
aaaatttggg gctggatgac accaaaatoc tcccaggcaa catgaaggat aacttctggg 660
agatgggtga cacgggcccc tgtggtcctt gcagtgaagt ccactacgac cggattgggtg 720
gtcgggacgc cgcacatctt gtcaaccagg acgaccctaa tgtgctggag atctggaacc 780
ttgtgttcat ccagtataac aggggaagctg atggcattct gaaacctctt cccaagaaaa 840
gcattgacac agggatgggc ctggaacgac tggatatctgt gctgcagaat aagatgtcca 900
actatgacac tgaccttttt gtcccttact ttgaagccat tcagaagggc acaggtgccc 960
gaccatacac tgggaaagtt ggtgctgagg atgccgatgg gattgacatg gcctaccggg 1020
tgctggctga ccatgctcgg accatcactg tggcactggc tgatggtggc cggcctgaca 1080
acacagggcg tggatatgtg ttgagacgga ttctccgccc agctgtccga tacgcccattg 1140
aaaagctcaa tgccagcagg ggcttctttg ctacgttagt ggatgttgtc gtccagtcce 1200
tgggagatgc atttcttgag ctgaagaagg acccagacat ggtgaaggac atcataatg 1260
aagaagaggt gcagtttctc aagactctca gcagagggcg tcgcatcctg gacaggaaaa 1320
ttcagagcct gggagacagc aagaccattc cccgagacac tgcttggctc ctctatgaca 1380
cctatgggtt tccagtggat ctgactggac tgattgctga agagaagggc ctgggtggtg 1440
acatggatgg ctttgaagag gagaggaaac tggcccagct gaaatcacag ggcaaggagg 1500
ctggtgggga agacctcatt atgctggaca ttacgctat cgaagagctc cgggcacggg 1560
gtctggaggt cacagatgat tccccaaagt acaattacca tttggactcc agtggttagct 1620
atgtatttga gaacacagtg gctacgggtg tggctctgcg cagggagaag atgttcgtgg 1680
aagaggtgtc cacaggccag gagtgtggag tggctctgga caagacctgt ttctatgctg 1740
agcaaggagg ccagatctat gacgaaggct acctggtgaa ggtggatgac agcagtgaag 1800
ataaaacaga gtttacagtg aagaatgctc aggtccgagg agggatgtg ctacacattg 1860
gaaccatcta cggtagacct aaagtggggg atcaggtctg gctgtttatt gatgagcccc 1920
gacgaagacc catcatgagc aaccacacag ctacgcacat tctgaacttc gccctgcgct 1980
cagtgtctgg ggaagctgac cagaaaggct cattggttgc tcctgaccgc ctgagatttg 2040
actttactgc caagggagcc atgtccacc aacagatcaa gaaggctgaa gagattgcta 2100
atgagatgat tgaggcagcc aaggcgtct ataccagga ttgccccctg gcagcagcga 2160
aagccatcca gggcctacgg gctgtgtttg atgagacct tctgacctet gtgcgagtcg 2220
totccattgg ggtcccgggt tccgagttgc tggatgaccc ctctgggcct gctggctccc 2280
tgacttctgt tgagttctgt gggggaacgc acctgcccga ctcgagtcac gcaggagctt 2340
ttgtgatcgt gacggaagaa gccattgcca agggatatcc gaggatgtg gctgtcacag 2400
gtgccgagtc ctaggaaggc ctgagagctt gaagaaatgt ctctctgtca 2460
tggaagccaa agtgaaggct cagactgtct caaacaagga tgtgcagagg gagatcgctg 2520
accttggaga ggccttgccc actgcagtca tccccagtg gcagaaggat gaattgcggg 2580
agactctcaa atccctaaag aaggtcatgg atgacttgg cagagccagc aaagccgatg 2640
tccagaaacg agtgtagag aagacgaagc agttcatcga cagcaacccc aaccagcctc 2700
ttgtcatcct ggagatggag agcggcgcc cagccaaggc cctgaatgaa gccttgaagc 2760
tcttcaagat gcactccctc cagacttctg ccatgctctt cacggtggac aatgaggctg 2820
```

PA-0024 US

```
gcaagatcac gtgcctgtgt caagtccecc agaatgcagc caatcggggc ttaaaagcca 2880
gcgagtgggt gcagcaggtg tcaggcttga tggacggtaa aggtggtggc aaggatgtgt 2940
ctgcacaggc cacaggcaag aacgttggct gcctgcagga ggcgctgcag ctggccactt 3000
ccttcgcccc gctgcgcctc ggggatgtaa agaactgagt ggggaaggag gaggctccca 3060
ctggatccat ccgtccagcc aagagctctt catctgtctac aagaacattt gaatcttggg 3120
acctttaaag agccctcctt aaccagcag taactggaac acacttggga gcagtcctat 3180
gtctcagtgc cctttaattt tctgccctga gccctccacg tcagtgccat cggctctagaa 3240
ccactaacc cgcattgtct ttgatcgta cgtctgcac tatagataac ggctctccag 3300
acctgagctt tccgcgtcag caagtaggaa tcgtttttgc tgcagagaat aaaaggacca 3360
cgtgcaatac ttaatgccgc atgatctcta tccctcttcc caataggggc tggctctttt 3420
gacagccttt ggcgtctgta gaataaatgc tgtggctcct gaaaaacagg aaaccagggg 3480
aaccggggg ggggtccaaa gggcg 3505
```

<210> 64
<211> 872
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 234202.24

<220>
<221> unsure
<222> 732, 745, 758, 800, 821, 826, 830, 850-851, 854-855
<223> a, t, c, g, or other

```
<400> 64
cgcgccac gtccttgc atgcgcgcgac cggcgggcg gacaggcttg ctgcttctc 60
ctcctcgcc tcaccattcc agacaaaat tgaaaaaatg gttgacctca cccaggtaat 120
gggatgatga agtattcatg gcttttgc atctatgcaac aattattctt tcaaaaatga 180
tgcttatgag tactgcaact gcattctata gattgacaag aaaggttttg ccaatccaga 240
agactgtgta gcatttggca aaggagaaaa tgccaagaag tatcttcgaa cagatgacag 300
agtagaacgt gtacgcagag cccacctgaa tgaccttgaa aatattattc catttcttgg 360
aattggcctc ctgtattcct tgagtgggcc cgacctctct acagccatcc tgcacttcag 420
actatttgtc ggagcacgga tctaccacac cattgcatac ttgacacccc ttccccagcc 480
aaatagagct ttgagttttt ttgttgata tggagtta ctctccatgg cttacagggt 540
gctgaaaagt aaattgtacc tgtaaagaaa atcatacaac tcagcatcca gttggctttt 600
taagaattct gtacttccaa tttataatga atactttctt agatttttag taggagggga 660
gcagaggaat tatgaactgg ggtaaaccca tttgaatatt agcatgcaa tatcctgtat 720
tcttgtttta cntttggatt agaantttta catagtantt cttaagtctt tgtctgattt 780
ttaaagtact ttcttataa ttggatcagt tatgattgta ncatncacn acaccactt 840
tgaactatan nagnntgacg atgagaacct ta 872
```

<210> 65
<211> 2145
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 405309.8

```
<400> 65
gtagtgata ccatttaaag gtgtgcggcg ggtctctgtt cacatggctc aactggaaac 60
ctgtttcatg aacaagctta ctcaggaaac atctggtggt attccagcac attgttcttc 120
agggggacga ctctaagtcg ctttgtgggt gcagcagctt agaactagta tttgtgggtg 180
ggaaagatgg acttacggga gcttggtaat gcagggtggt aaggagcagg ttatgagagc 240
acttacaacc aagcctagct ccctggacca gttcaagagc aaactgcaga acctgagcta 300
cactgagatc ctgaaaatcc gccagtccga gaggatgaac caggaagatt tccagtcccg 360
cccgattttg gaactaaagg agaagattca gccagaaatc ttagagctga tcaaacagca 420
```

```

acgcctgaac cgccttgtgg aagggacctg ctttaggaaa ctcaatgccc ggccggaggca 480
agacaagttt tggtattgtc ggctttcgcc aaatcacaaa gtcctgcatt acggagactt 540
agaagagagt cctcagggag aagtgcccc cgattccttg caggacaaac tgccggtggc 600
agatatcaaa gccgtggtga cgggaaagga ctgccctcat atgaaagaga aaggtgccct 660
taaacaaaac aaggaggtgc ttgaactcgc tttctccatc ttgtatgact caaactgcc 720
actgaacttc atcgctcctg acaagcatga gtactgtatc tggacggatg gactgaatgc 780
gctactcggg aaggacatga tgagcgacct gacgcggaat gacctggaca ccctgctcag 840
catggaaatc aagctccgcc tcctggacct ggaaaacatc cagatccctg acgcacctcc 900
gccgattccc aaggagccca gcaactatga cttcgtctat gactgtaact gaagtggccg 960
ggcccagaca tgccccttcc aaaactggaa cacctagcta acaggagaga ggaatgaaaa 1020
cacacccacg ccttggaaac gtcccttgggt aaagggaagc tgtgggtcca cattcccttc 1080
agcatcacct ctagccctgg caactttcag cccctagctg gcatcttgct caccgccctg 1140
attctgttcc tcggctccac tgcttcagggt cacttcccat ggctgcagtc cactgggtggg 1200
acaagagcaa agcccactgc cagtaagaag gccaaagggc ccttccatcc tagccctctg 1260
caggcatgcc cttccttccc ttgggcagga aagccagcag cccagactg cccaaaaact 1320
tgcccaccag accaagggca gtgcccacag gcccctgtct ggaggaaatg gcctagctat 1380
ttgatgagaa gaccaaacc ccatcctcc tttccctct ctctagaatc atctcgcacc 1440
accagttaca cttgaattaa gatctgcgt caaatctcct ccacctctc tcctgcttt 1500
tgccctgtc tgcttctctt tgggtcccaag agcagcagcc gcagcctcct cgtgactctc 1560
cctagcataa atttcccaa cagtccacag gtcccatgcc cactttgcgt ctgactgtg 1620
atcgtgacaa atcttccctc ctcaccagct agtctggggt ttcctctccc tgcccaggc 1680
cagaactgcc ttcttcattt ccacccacgc tcccagcctc ttagctgaaa gcacaaatgg 1740
tgaaatcagt agtctcgtc catctctaat agactaaacc taaatgcctc taggacggac 1800
tggtgctatc caagcgtttg gtgttacctt ctctgggag gtccgtgctg aactcaagt 1860
ccacaggatg gtcaagctgt cagacatcca agtttacatc attgtaatga ttactggtat 1920
ttacaatttg caagagtttt gggttagttt tttttttttt ttgctttgtt tttgtacaaa 1980
agagtctaac attttttgcc aaacagatat atatttaatg aaaagaagag atacataaat 2040
gtgtgaattt ccagtttttt ttttaattatt ttaatcccaa acatcttcct gaaaataaca 2100
ttcccttaaa catgctgtgg aataaaatgg attgtgatga tttgg 2145

```

<210> 66

<211> 1747

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 244561.6

<400> 66

```

gctgcggggc aggcggcgcc ccctagcgtc ggcaggggtc ggggactgcg cggcggtgcc 60
caggccgggc gtgggcgaga gcacgaacgg gctgcctgcg ggctgagagc gtcgagctgt 120
ccaccatggg tgatcacgct tggagcttcc taaaggactt cctggccggg ggcgtcgccg 180
ctgccgtctc caagaccgcg gtgcceccca tcgagagggt caaactgctg ctgcaggtcc 240
agcatgccag caaacagatc agtgctgaga agcagtacaa agggatcatt gattgtgtgg 300
tgagaatccc taaggagcag ggcttccctc ccttctggag gggtaacctg gccaacgtga 360
tccgttactt cccaccccaa gctctcaact tcgccttcaa ggacaagtac aagcagctct 420
tcttaggggg tgtggatcgg cataagcagt tctggcgcta ctttgctggt aacctggcgt 480
ccggtggggc cgtggggcc acctcccttt gctttgtcta cccgtggac tttgctagga 540
ccaggttggc tgctgatgtg ggcaagggcg ccgccagcg tgagtcccat ggtctggggc 600
actgtatcat caagatcttc aagtctgatg gcctgagggg gctctaccag ggtttcaacg 660
tctctgtcca aggcattcatt atctatagag ctgcctactt cggagtctat gatactgcca 720
aggggatgct gctgacccc aagaacgtgc acatttttgt gagctggatg attgccaga 780
gtgtgacggc agtcgcaggg ctggtgtcct acccttttga cactgttcgt cgtagaatga 840
tgatgcagtc cggccgga aaagacgaa ggagccaagg ccttcttcaa aggtgcctgg tccaatgtgc 960
tgagaggcat gggcggtgct tttgtatttg tgttgatga tgagatcaaa aaatatgtct 1020
aatgtaatta aaacacaagt tcacagattt acagtgaact tgatctacaa gttcacagat 1080
ccattgtgtg gttaataaga ctattcctag ggggaagtaa aagatctggg ataaaaccag 1140
actgaaagga atacctcaga agagatgctt cattgagtgt tcattaaacc acacatgtat 1200
tttgatttta ttttacattt aaattcccac agcaaataga aaataattta tcatacttgt 1260

```

PA-0024 US

acaattaact	gaagaattga	taataactga	atgtgaaaca	tcaataaaga	ccacttaatg	1320
cacgctttct	atttttattga	actcttatta	actgtaaaat	gcatttttta	aagatcaaaa	1380
atgcatatct	tctagcatga	ttcatgtatc	agtcagcagc	caagcttcta	aatgccagat	1440
atttatattga	gaatgtatta	tatgagaacg	tacaatgctt	aaagttccgg	ttttcaaact	1500
taggcaggtc	atattctatc	tatcttatcc	agcggtactg	taggctagaa	agtataatg	1560
gctttcataa	tcctgccttg	tcttaggcac	tttctgcag	tctttagaaa	ttctaagatt	1620
ctgctaaaag	ttttaaatca	caatctggag	aattttctat	gattaggaag	tgctctgttt	1680
tcaccccttt	agataactgt	gacacctaga	attttatgtt	aagtagagag	tattcattga	1740
aatcaa						1747

<210> 67
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255712.1

<400> 67	
gacttctcat	atcttgccca
gctcctgcac	cacaggtggc
aatgtacctc	ctgcaagaag
cccagggtgc	tgtctgcaaa
agagccctgc	tcccagacat
taccctgacc	ggtttgctac
gtttgacttg	aaaaaaggca
tggggggcgg	acccccctag
cggggcaaaa	aactttctca
aatgcttggc	atccagcc

<210> 68
<211> 2336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 034137.5

<400> 68	
ggagggggcc	aggtcggagg
acattttccc	aggggcctcg
gtggagcccg	ggacttccac
ccgaactcgg	gttctgacaa
gcgtttgctg	gcagaaccag
ttattttcat	gtggtcattg
acttgaacta	ttccttccag
caaaatztat	catcctaatt
taagtgggtc	ccagcactgc
tgctcccaat	ccagatgatc
agcccaagcc	atagaaacag
aattgatagc	atcatcaagt
tggttgcaat	taattggacat
tcagtccttt	ggtgattaaa
ataaagcatg	agcagaggct
tggccctctc	ctgcttttat
tgaaggtagt	tgctcaggtt
ttttattttt	gaggggggag
atctaattgc	attggttaaa
taactttatt	tagacgctgt

PA-0024 US

taaacaaaca	tcacagccct	cactaataac	attgctgtca	agtgtagatt	cccccttea	1260
aaaaaagctt	gtgaccattt	tgtatggctt	gtctggaaac	ttctgtaa	cttatgtttt	1320
agtaaaatat	tttttgttat	tctactttgc	ctttgtacag	tttattttac	tgtgttttatt	1380
tcattttccc	aatttgacaa	tcgtatttta	aaattgaaac	tgatggaaca	ttctttcttg	1440
gtcttcacca	tctgacaaat	tgaatggcaa	gaggtggatt	ttgccagttt	cttttctactg	1500
atgcagattt	gtgtaaagat	agtactgaat	ggagtattta	taaactggcc	ctgagcatgc	1560
ataaagcatc	agtatctgac	ctttttttta	ccttctagga	atttgaaata	aatgtgtttg	1620
tgttgtctga	ttagatgac	attggtgtct	tgccacaatg	tttaaaaatt	actgtacagg	1680
aaagtcacag	caaagatagc	agttgtgact	gacatgtagg	actttcacag	ttgtgccaca	1740
tttttgcccta	aaatttgggt	tatgacattt	ttcttggttc	ttatctgaaa	atttcatctg	1800
taaccttttc	tgtgtgttaa	gaaacactga	tctgatcatt	tgggatttgc	tgaggcattt	1860
gtgagtcctc	cttataaacc	tgatgagcag	atctcaacta	tctagcttgt	gtgtcatcag	1920
aaaggtttat	ccctttgaga	gtatcaagtc	ctcagttaat	gattcttgct	ttcatccctc	1980
cagtatttgc	tgtgggagct	cgttttatct	tttaatttgg	aattcagtaa	tttttcttct	2040
ttattgacga	attcctcccc	tcacaaaact	gttctttccc	acctctctcc	atatctaatt	2100
cctgattctt	gttattttta	agtcataaat	gtagccagtc	ataaatacat	aaatgttaac	2160
cttcgggttg	caaccttgtc	tcttgacagt	taaggtaatg	gatattgtag	cccatttgaa	2220
ttttcttcac	tcttattctc	gtaattctgg	agtttcttca	gattgtggtg	tattttattg	2280
tgctcctatg	taagatgaag	aattaactat	taaaattaca	ttttcaacat	acaaaa	2336

<210> 69

<211> 2468

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 374578.5

<220>

<221> unsure

<222> 1521, 1528, 1531, 1536

<223> a, t, c, g, or other

<400> 69

gagagactgc	cagagaggaa	gagaaaagaa	aggaagaaac	attagaaaga	aaaaggaagg	60
aaaacggtat	aaagagagat	caattaccca	cccttaaata	gctagattgg	ggggggaggg	120
gggtggaaaa	gaaagctgtg	gaggtgtgcc	ccagcacggc	tgctttgaaa	ggtttatcat	180
ctatccgttt	ggtttatgga	gaaaaagaaa	atggtaactc	agggtaacca	ggagccgaca	240
acaactcctg	acgcaatggg	tcagcctttt	actaccatcc	catttccacc	acctccgcag	300
aatggaattc	ccacagagta	tggggtgcc	cacactcaag	actatgccgg	ccagaccggt	360
gagcataacc	tgacactcta	cggaagtacg	caagcccacg	gggagcagag	cagcaactca	420
cccagcacac	aaaatggatc	tcttacgcag	acagaaggtg	gagcacagac	agacggccag	480
cagtcacaga	cacaaagtag	tgaaaattca	gagagtaa	ctaccccgaa	acggctgcat	540
gtctctaata	ttcctttccg	cttcggggac	cctgacctcc	ggcagatgtt	tgggcagttt	600
ggcaaaatcc	tagatgtaga	aataatcttt	aatgaacgtg	gctctaaggg	attcgggttc	660
gtaactttcg	agaatagtgc	tgatgcagac	agggccaggg	agaaattaca	cggcacctgt	720
gtagagggcc	gtaaaatcga	ggtgaataat	gctacagcac	gtgtaatgac	caataagaag	780
atgggtcacac	catatgcaaa	tggttggaaa	ttaagcccag	tagttggagc	tgtatatggg	840
ccggagttat	atgcagcatc	cagctttcaa	gcagatgtgt	ccctaggcaa	tgatgcagca	900
gtgcccttat	caggaagagg	gggtatcaac	acttacattc	ctttaatcat	tcctggcttc	960
ccttaccccta	ctgcagccac	cacggcagcc	cgctttcaga	ggagcccat	tgaggggcag	1020
agggcgagaca	gtatatggtg	cagtcgcagc	ggtacctcca	acagccatcc	ccgcctatcc	1080
aggggtggat	atgcagccta	cagatatgca	cagcctgcta	ctgcaaccgc	agccaccgct	1140
gctgcagccg	ctgcagccgc	ttacagtgc	gggtatggca	gggtgtacac	agccgacccc	1200
taccatgccc	ttgcccttgc	cgctagctat	ggagttggcg	ctgtggcgag	tttataccga	1260
gggtggctaca	gccgatttgc	cccctactga	agtgacgtga	gacccctgca	aatgggacag	1320
ccccccagtt	catgaggcct	ggctattgca	atatttacta	gtagagggaac	tctatagcaa	1380
gatgaagagg	aaaaacaaac	aaacaaacaa	acaaaaaacac	aaaaaaagaa	agaatacttt	1440
tttatacctc	actatgttct	ttgaatatgt	atttttctct	taaatttctg	cctttaattc	1500
ttttgttcca	aagattgtgc	nttttttnt	ntgtgntttt	aaactgtggt	aaaaaaaaa	1560

PA-0024 US

```
aaaaataatg catttccatg tctgtatgtc cgtgcttagc ttattctatc aatcacggaa 1620
gaggcagtcaggaggaggaagg agagacatta ggagccgata aatgcatctg atcagaaatc 1680
agcagacaga attaccaaag tgtatctggt gctgaatgac tgggggacaa gcagaagtgg 1740
aagagatctt tctgcaacag gatattcttc tagtcttctg agtttctggt ctttgacagg 1800
caattctggt tggctgtggc tggaaatccac atgctgatag ataggaattt gtgcttaca 1860
agcaggagaa ttaaaaagac gctttcctct cctcttccct cctgtcttct cgttctttt 1920
tacaatcatc ttacacgcac agcctgagac agctggcata gtttttggaa ttatagtatt 1980
gatatttcca aacgtgctct cagacagtgg ataataaaca cctcattagg aaaccgatct 2040
cagaatgaac tctggagtat gaaaaagatc atttcttttt gttcctgtaa cctagcattc 2100
cttctaggct tcttctcctt taattgaacc acagcttagc tcatgtattc ttttattaac 2160
accctgctct catgtccata agattcagga atttaggacc cagggacaga aaagtgaata 2220
agccagtgcac cagatttccc ccagatgtct tgaggattag aagtacaaat tgttgacagc 2280
cattaaagag ggtgaggaag ggaaaaggaa tattagaaga tctgggtattt cttacttttt 2340
tcttgccctca gaaagtacaa agtttaaaaa atagaataaa gaatctgctg gggaaagata 2400
gagtaccagg tcctaggtca gtagtccctg gaagttttgg tgatgaggac atggaagggc 2460
aggcagag 2468
```

<210> 70

<211> 1876

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 234151.1

<220>

<221> unsure

<222> 1360, 1362-1391, 1864

<223> a, t, c, g, or other

<400> 70

```
gggctcgcag ggacgtttcc tccctcccgg ctccggggccc cgcccgggccc ggcccccgcc 60
cagagcccca gcgcgcgcag gatgtgagtc ctgctcgccct ctggcgaggc agcagccact 120
cgcgcgcgga gccggagcgc agcgcagcgc agcccggggc gctctccggg ccgctcgcgc 180
gagtgcgcgc ctcttgccct agcggcgctc cccggcctct cgccggcgcc accgcccgcag 240
cagcccgcgg gccgtccccg gccggccgcc cccggcccca gcgcgcgtga cctgtccgc 300
cgcgggcggg gacgcgggcy gagggagcgc cgcgcgaggc ccccgagcgc gaccatgtcg 360
gaggtgctgc cctacggcga cgagaagctg agccctacg gcgacggcgg cgacgtgggc 420
cagatcttct cctgccgcct gcaggacacc aacaacttct tcggcgccgg gcagaacaag 480
cgcccgccca agctgggcca gatcgccgg agcaagcggg ttgttattga agatgatagg 540
attgatgacg tgctgaaaaa tatgaccgac aaggcacctc ctggtgtcta actccccaa 600
agaccctgag ttaagggaga gaataagaac ggcggtaaca gttattggca aaaagcatga 660
aaagagaaag cactttgaaa tttattacta gcttgctacc caccgatgaaa tcaacaacct 720
gtatctggta tcaggccggg agacagatga ggcgagagga ggaggggggaggaggagaagg 780
ctctgggctc ctctgcaaaa ataaaaataa aaaaaataaa taaaatttta aaaataataa 840
aaattcacta tatacacata taaagaaata aaaagaagtc tcagttgcag ctatttgtca 900
aaattaatat ccatttcttt ttatatacgg tgaatatgtc gcaattatag atctggattt 960
tgaaccactt aatgaagcgg caacaccagg tgttttgagg tgttggcatt cttegtgat 1020
ttggctgttc ccaatgttta cattatttaa tcttgcaaaa atgggttctgt gcacttggat 1080
gtgaaatgct gtccagtttt atttttttta tggtgttatt cttggatgta caaaaaattc 1140
agaaaatgat ctctgtagat attctgtttt attttggcca tctttagaag ttatcaggaa 1200
tgtgtttaaa acaagaagag aacttttcta agaatgata catagaaaag attttatttt 1260
aaaatgagtt gtaaagcttg tgtttctttg ttgctgcaag ctatctgccc aagttaatgc 1320
aatggacac attttttatg tcagaaaaac acacacacan gnnnnnnnnnn nnnnnnnnnn 1380
nnnnnnnnnn ngaaaaacaa agaaaaaaat gcttgagctt tttctaactt ccccttgcag 1440
tctgttgtgt gagcagcctg tttatttctc taatattatg tcagtttatt ctctttaatg 1500
gactgtaaaa aaatgtaatc acaagagtgc caaatatctt gaaatgccaa aaggcatttt 1560
agtttctttt ctctgtgctc tgagtccacg tacaggaatg cttggagtgt cttttctgtt 1620
atttataggc attctcttaa ggcacaccag ctgcctgttt tgcattggtat ttgcaaaaat 1680
gcctcttggt tgagggatga ttttaccatt ttttgttgc aactttggac ctcaaagggt 1740
```

PA-0024 US

```
ttcccttccc ttccccgttc cctctttttct taattcaata ttctgtatgt tgcaccttga 1800
accagcacac agggctattt ctccaatgta caataaaaga attgttcctg tgtcaaaaaa 1860
aanaccacc gttccc                                     1876
```

<210> 71
<211> 1811
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198145.6

```
<400> 71
cgggcgcgac gcctgtaggg acagtctggg gtttggtgtt ccggacggtg cagcggcgag 60
gccggccgcy aagatgccag tggcggtgat ggcggaaagc gccttttagt tcaaaaagtt 120
gctggatcag tgcgagaacc aggagctcga ggcccttggg ggaattgcta caccctcagt 180
gtatggtcag cttctagctt tataatttgc ccataatgac atgaataatg caagatatct 240
ttggaaaaga ataccacctg ctataaaatc tgcaaatctt gaacttgggg gaatttggtc 300
agtaggacaa agaactctggc agagagattt ccctgggac tatacaacca tcaacgctca 360
ccagtggctc gagacggctc agccaattat ggaagcactt agagatgcaa caaggagacg 420
cgcttttgcc ctggtctctc aagcgtatac ttcaatcact gccgatgatt ttgcagcctt 480
tggttgactt cctgtagaag aggctgtgaa aggcataatta gaacaaggat ggcaagctga 540
ttccaccaca agaattggtc tgcccagaaa gccagttgca ggggccctgg atgtttcctt 600
taacaagttt attcccttat cagagcctgc tccagttccc ccaatacca atgaacagca 660
gttagccaga ctgacggatt atgtggcttt ccttgaaaac tgatttatca ctctgagttc 720
aagattcatc ttcagaatcc tgtatactga caaacgtaga aatgtaaagt ttgtattttc 780
aatttattgg atggcttaag cacctcagca ttcttacta tgtgataaaa tacatataga 840
atataagata tactatatac attttgtcca taaacgttat gctgaatagt tgttgaaaca 900
gtttcatttt ttagtatttt aataatctgg atggagcctg tcagtattac agttagtttt 960
ctagtgaact ataaaataag atttcctggt tcatgtagaa tagtgtttgt caactgtctt 1020
ttctctgtcc cagcacatgc cgtactctta tatgtaccat tggttgataa ttataatgat 1080
tcatttggac ttgaagaaag attgtcccca ggcacagtat ctgaatcact ggggattatg 1140
attcaccctc tttggagaac atgctctctt ttcaccccc acctcctgag agccactaat 1200
gtaagataca gaaacatagc tgaggaacaa atagaccatt tccatactaa accagtttgt 1260
taactttaga ttttttccaa tagtgtgagt atatccattg ctggcagtgagg gggccttgcc 1320
atgaaaatgc aacttattta agacatttat gagacataat aacttggtgt gtcgcctttt 1380
agaaggagaa acttaagtgt ggaatgcatt atatgggcaa agaagctatg aagatacatg 1440
atacactttg tacaactatc ctgcagccca ttgggtgtct atatttatcg cttggctcaa 1500
gttctgccct ttggagaaat actgagcaag tctttcattc tctgtgtgac agccctctga 1560
atatttgaag ttgtttgttg taacttaagg ttataacagc ccttagttca tttactctgc 1620
atttgttcaa taaatattta actgaattct tcaattattt catctaagat agtttctgga 1680
aatttcacca tcgacttttc tgtggacaca atctattttg tcattgtgtc tatatgaatc 1740
tcttaagtag aatgagttg tatggtgaat ctgtgtagtg ataattatat aatttattta 1800
ttttgaatgc a                                     1811
```

<210> 72
<211> 2962
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 349676.8

```
<400> 72
aaagacctgc agtattgtct cttaaagctc actatctctg gccattcact aaggaaccag 60
gcaccgtctt aaatcgcggt ttggaaaata ttttgttcaa gataaaactg ttttaagata 120
tacgtgtata tatcttatat atctgtatct gcatggtaac atatcttcgg ccttcctgag 180
ccgctgggct ctacagcgcc ctccaaggca gcccgcaggc ccctgtgtgc ctacgggatc 240
cgacctccca cagccctggg gagaccttgc atctaaaagt gctgcttttg cagcctctgc 300
```

```

cacaaccgcg cgtcctcaga gccagcccgaggagctaga accttccccg cattttctt 360
agcagcctga gtcagaggcg ggctggcctg gcgtagccgc ccagcctcgc ggctcatgcc 420
ccgatctgcc cgaaccttct cccgggggtca gcgcccgcc gcgccaccgc gctgagtcag 480
cccgggcggg cgagaggctc tcaactgggc ggggaagggtgc ggggaagggtgc ggaaagggttc 540
gcgaaagtgc gcggcgggcg gggtcgggtg aggcgcacaa ggataaaaag cccgtggaag 600
cggcgctgag cagatccgag ccgggctggc tgcagagaaa ccgcaggag agcctcactg 660
ctgagcgcgc cttcgacggc ggagcggcag caggcctgcc gtggcctcca gcatccgaca 720
agaagcttca gccatgcagg cccacggga gctcgcggtg ggcacgcacc tgggcaccac 780
ctactcgtgc gtgggctgtg ttcagcaggg ccgcgtggag atcctggcca acgaccaggg 840
caaccgcacc acgcccagct acgtggcctt caccgacacc gagcggctgg tcggggacgc 900
ggccaagagc caggcggccc tgaaccccc caacaccgtg ttcgatgcca agcggctgat 960
cgggcgcaag ttcgcggaca ccacgggtga ctcggacatg aagcactggc ccttcgggt 1020
ggtgagcgaag ggcggcaagc ccaagggtgc gctatgctac cgcggggagg acaagacgtt 1080
ctaccccgag gagatctcgt ccatggtgct gagcaagatg aaggagacgg ccgaggcgta 1140
cctggggccag cccgtgaagc acgcagtgat caccgtgccc gcctatttca atgactcgca 1200
gcgccaggcc accaaggacg cggggggccat cgcggggctc aacgtgttgc ggatcatcaa 1260
tgagcccacg gcagctgcca tcgcctatgg gctggaccgg cggggcgcgg gagagcgcaa 1320
cgtgctcatt tttgacctg gtggggggcac cctcgatgtg tcggttctct ccattgacgc 1380
tgggtgtctt gaggtgaaag ccactgctgg agataccac ctgggaggag aggacttcga 1440
caaccggctc gtgaaccact tcatggaaga attccggcgg aagcatggga aggacctgag 1500
cggaacaag cgtgccctgc gcaggtgcg cacagcctgt gagcgcgcca agcgcaccct 1560
gtcctccagc acccaggcca ccctggagat agactccctg ttcgagggcg tggacttcta 1620
cacgtccatc actcgtgccc gctttgagga actgtgctca gacctcttcc gcagaccct 1680
ggagccggtg gagaaggccc tgcgggatgc caagctggac aaggcccaga ttcatgacgt 1740
cgtcctggtg gggggctcca cacgcatccc caagggtgcag aagttgctgc aggacttctt 1800
caacgggcaa ggagctgaac aagagcatca accctgatga ggctgtggcc tatggggctg 1860
ctgtgcaggc ggccgtgttg atgggggaca aatgtgagaa agtgcaggat ctctggtg 1920
ctggatgtgg ctccctgtc tctggggctg gagacagcag gtggggtgat gaccacgctg 1980
atccagagga acgccaactat cccaccaag cagaccaga ctttcaccac ctactcgga 2040
aacagcctg ggtcttcat cagggtgat gaggggtgaga gggccatgac caaggacaac 2100
aacctgctgg gcggttttga actcagtggc atccctcctg cccacgtgg agtccccag 2160
atagaggtga cctttgacat tgatgcta atccatgaca agggccggct gagcaaggag 2280
agcacaggta aggctaacaa gatcaccatc cagtaacaag ctgaggatga ggcccagagg 2340
gaggtggaga gbatggttca tgaagccgag gcccatgtct tccatgtgaa aggttctttg 2400
gacagagtgg ctgcaaaaaa ctgcgtggag gcccattgct ggcgcaaaat gcaagacaag 2460
caagaggaaa gccttaggga caagattccc aaccagctgg cagagaagga ggagtatgag 2520
tgctgggaag tccttgctg gctggagcac aaccagctgg cgcgtgacagc cactgacagg 2580
catcagaaga gggagctgga gcaaatctgt cgcctcatct tctccaggct ctatgggggg 2640
cctggtgtcc ctgggggcag cagttgtggc actcaagccc gccaggggga cccagcacc 2700
ggcccatca ttgaggaggt tgattgaatg gcccttcgtg ataagtcagc tgtgactgtc 2760
agggtatgc tatgggcctt ctagactgtc ttctatgatc ctgcccttca gagatgaact 2820
ttccctccaa agctagaact ttcttcccag gataactgaa gtcttttgac ttttgcggg 2880
gagggcggtt catcctcttc tgcttcaaat aaaaagtcat taatttatta aaacttgtgt 2940
ggcactttaa cattgctttc acctatattt tgtgtacttt gttacttgca tgtatgaatt 2962
ttgttatgta aaatatagtt at

```

<210> 73

<211> 3772

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 078171.3

<220>

<221> unsure

<222> 1746-1768

<223> a, t, c, g, or other

<400> 73

cgcgcctagg	agcagtggaac	gctgagagca	gcaaggccag	agttgaaaac	ttacagagtc	60
ctgaggcctt	cagactgaaa	aaggctttct	tctgtcactg	acaatcgcca	ccatgatcca	120
tagtcttttc	ttgatcaact	cctctggaga	cattttcctg	gagaaacatt	ggaaaagtgt	180
ggtcagccgt	tctgtttgtg	attacttttt	tgaggcgcaa	gagagagcta	ctgaggcaga	240
aaatgtgcct	ccggttatcc	ctaccctcca	ccactatctc	ttaagtgttt	accgccacaa	300
gatctttttt	gtggccgtga	tccagacgga	ggccccccct	ctgtttgtca	ttgagtttct	360
tcaccgagtg	gtggacacat	ttcaggatta	ttttggagtc	tgttcagagc	cagtgatcaa	420
agacaatgta	gttggtggtt	atgaggtatt	ggaagagatg	cttgacaatg	gttttccatt	480
ggctaccgag	tcgaacattc	ttaaagaact	cataaagcct	cctaccatcc	ttcgaacggt	540
tgtcaacacc	atcacaggaa	gcacgaatgt	gggtgaccag	cttcccactg	ggcagctgtc	600
agtgggtgcct	tggcgacgga	ctgggggtgaa	atataccaac	aatgaggcct	atttttagtg	660
gattgaagaa	attgatgcaa	ttattgataa	atcaggctcc	acaattactg	ctgagatcca	720
ggggggtgatt	gatgcctgtg	tcaagctgac	tggcatgcca	gaccttacac	tttccttcat	780
gaaccctagg	ttgttggtatg	atgtcagctt	ccatccttgt	gttcgtttca	aacgctggga	840
atctgagcgc	atcctctcct	tcacccctcc	tgatggaaac	ttccgcctgc	tgtcttacca	900
tgtcagtgca	cagaatctgg	ttgcaatccc	agtgtatgtc	aaacataaca	tcagtttccg	960
ggacagtagt	tccttggac	gctttgaaat	aacggtggga	cccaagcaga	cgatggggaa	1020
gaccatttag	ggagtgactg	tcaccagcca	gatgcccaag	ggggtcctga	acatgagcct	1080
tactccatca	caggggacac	acacattcga	cccagtcaca	aagatgctgt	cttgggatgt	1140
aggaaaaata	aatccacaaa	agctaccaag	tttgaagggg	accatgagtc	ttcaggctgg	1200
agcttccaaa	ccagatgaaa	accccacaat	taacctgcag	tttaagatcc	agcagctggc	1260
cattttctgga	ctcaaggtga	atcgtctgga	tatgtatgga	gaaaagtaca	aaccctttta	1320
gggcataaaa	tacatgacca	aagctgggaa	gttccaagtt	cgaacctgaa	gggagcattt	1380
gctgagggaa	tagtcttgca	cattttttca	tttcttactt	gtctaaaagt	aaaaaaaaat	1440
atcagcctgt	ctcctaggtc	agtcctctcc	tggaccctcc	cgctcccttt	tttccttagc	1500
cttcagtgcc	atggaactaa	tcaagggagg	aaaaggtcac	cagggagAAC	tggacagAAC	1560
tgaAACacag	caacaccagt	tctcaaggac	aagggtgtgtg	atgggggtag	gaagcttggg	1620
gcttatgtaa	ccatttttaa	cgtggtttct	ataggaaaga	ccaacatttg	tttagcttgc	1680
ttggctttaa	ttatctaaag	ccaatgaaag	acttctttgt	tgatttttta	agatagaaag	1740
attaannnnn	nnnnnnnnnn	nnnnnnnnat	gaatgtcagt	caaggaaagg	ccacttaagg	1800
atctgctcta	tgaaggagaa	gaaagaggaa	aaagaagtaa	aggagttagg	aggagacact	1860
taaatgaaag	attggcaaga	aaagcagtcg	gactctacct	taaggaggga	tgggaaggaa	1920
agagttgagt	tggtttcttt	ctgattcctc	tactcatgta	gaaaacactt	gtacttctgg	1980
aaatggactg	gagacttttt	aaatttgagt	ccactattga	catggaaacc	ccagtggaaat	2040
cagattttcc	ctcaaagacc	atgatggtat	cggactagtt	ttcagacact	gcctgttgct	2100
gtccatcagc	acttggtctc	ttatcttcag	tgagaagggtg	acccgccttc	ttcccatggg	2160
ggctgcctaa	agtgcctctt	ttctaacccta	actcacttcc	actcacttcc	ttttacagaa	2220
ttcaccggcc	attttctctg	tacctgatcc	ttctacagga	tttttaaaaa	gtaagagagt	2280
ttcagagaag	ccgatcccat	aatccccagt	gcagccaggg	tttgtgtgtc	atcgtactgg	2340
agtagagggc	cgactcttcc	catgaagggtg	agcacagctg	tgagtgagtg	agctcatatc	2400
tccattttgtc	agtgcctggac	tggtaccaga	tcgtaacctt	cccgttgggtc	ggaaactttt	2460
ccatctgtcg	ccctagaaaa	agagaaagct	taccatcgag	gggtgtggtg	atccttgaag	2520
ctgcttggtg	aagtctatcat	ttcctcagtc	ttttcttttg	tactcctatc	atgtattcat	2580
taatatctac	cagtcctttt	tcattctaaag	acaaaacatt	tctcctaaat	ctctgaataa	2640
aatcagtgct	gtaggaagat	ggactgtgtt	gatcatgggt	gtaagcaacc	cagttttaaga	2700
aacatggcaa	ctaaagggat	acctcagggt	ttctttccca	gtgggtcatt	tttgtcctag	2760
ttcagtggtg	ctgttactat	ttaaatatatt	atacaaaaagg	gtttttgttt	atagcttaag	2820
gaatgatact	gtgctctgct	tggtgcatgg	agaaaaagga	agaccatac	tctccacacc	2880
ctagagcttt	tctctaaata	ttgtgcaaag	tttttgctag	ttttatcttc	tgactttggg	2940
actagttttt	gctgcagagt	tgtgttgctt	tgtgattttc	ctctgggata	gtgtactgta	3000
cacaaccaga	tgtgttccac	actccgtgac	tccgcagttt	gtcctggagt	gacatacaca	3060
tccaccatgg	aaagggaagc	atctctgcct	gtggattctc	aagtacttgg	aagcacctct	3120
cctgaggaac	ctacaggatt	ctaaggtttc	ctaggtcact	gaacaactaa	tcttgggtccc	3180
tgaatatttc	taggtttgta	agtgcagcag	ttttatttcc	tctagaactc	atcctgtttc	3240
aagggaagta	cctaagaaga	tatagagtgt	ttctagggta	agggacctgc	aggtgtgaagc	3300
atagatgaaa	taactgtcct	gtcacatgtg	cagcaggcca	tggagtgtag	cgggcatcgc	3360
tgcgcgccatt	cctgcagcat	caccataagc	agtgcagggt	gtctccatcg	agctgttttg	3420
ttccatgtgt	gtttaacatg	tgcagaagta	gcttctctgt	ttaaagtttaa	taaagttgag	3480
tttcaccagt	cttctatgtc	ctaagtgggt	tgttaccaga	actaacaaca	gtgctatgcc	3540
actcaaacct	cagtagaagc	agtgagtaag	gaattcatcg	actcaggagg	atcttactgc	3600
ttctgtcctg	ttagtcagc	agacctaaag	catgtgtttt	gatcgattct	ttgggtacat	3660

PA-0024 US

```
ctggaagata gcagatgctg atattaatgt ctttttagg gtggtgagca taaggccag 3720
atccacctag ttatttttca ccagagtctt aaaagacgaa atcgttgaag ct 3772
```

<210> 74

<211> 9262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246655.92

<220>

<221> unsure

<222> 1941-1942, 1952-1953, 1956, 1958, 1963, 6600-6601

<223> a, t, c, g, or other

<400> 74

```
atcagttgca ctttcttgg tcccacccat tatacatgaa cccctctact tcttttcgca 60
ttgcttctga gtatgctgac tacccaaagc ccttctgtg ttattaataa acacagtact 120
gattgtccca tttttcagcc catcagtcca agatctccct accactttgg tgtgttggtg 180
cagtggtgac tatgaaaagc aggcctgaac taggtggata agccttcact ctttttcttt 240
catttattaa tgatcctagt ttcaattatt gtcagattct ggggacaaga accattcttg 300
cccacctgtg ttactgcttt actgtgcaaa atactgaagg caagtcagac ccaggagact 360
ggattgccat cctttatctt gtgtttccag tgtacactat aaaattgtct cccagggaag 420
gaaggttggc actttctctg cattcttctt tccagagcag attgcctggt taagaatctc 480
ttgttgtccc ctttgtatat tgttattgta aagtgcctaa tgccaggata cagccagaaa 540
aattgcttat tattattaaa aaaatttttt taagaaagac atctggattg taggggtggac 600
tcgataacct ggtcattatt tttttgaagc caaaatatcc atttatacta tgtacctggt 660
gaccagtgtc tctcatttta actgaggggtg gtgggtctgt ggatagaaca ctgactcttg 720
ctattttaat atcaaagata ttctagagtg gaactcttaa gaccagtatc tttgtgtggg 780
ctttaccagc attcactttt agaaaaacta cctaaatttt ataactcttt aatttcttca 840
tctggagcac ctgcccctac ttatttcaag aagattgcag taaaacgatt aaatgagggg 900
acatatgcag aggtgctttt aaaaagcata tgccaccttt tttattattt attatataaa 960
atgaagcatt taattatagt aataatttga agtagtttga agtaccacac tgagggtgagg 1020
acttaaaaat gataagacga gttccctatt ttataagaaa aataagccaa aattaaatat 1080
tcttttggat ataaatttca acagtgcag agctgcctag tggaaatgaa taatatccca 1140
gccactagtg tacaggggtg tttgtggcac aggtattatg aatatggaac tgctcaagca 1200
aataactagt catcacaaca gcagttcttt gtaataactg aaaaagaata ttgtttctcg 1260
gagaaggatg tcaaaagatc ggcccagctc agggagcagt ttgcccact agctcctcgg 1320
acagctgtaa agaagagtct ctggctcttt agaatactga tcccattgaa gataccacgc 1380
tgcattgtgc cttagtatgc atgtctcctt aggtcctctt tggacattct gagcatgtga 1440
gacctgagga ctgcaaacag ctataagagg ctccaaatta atcatatctt tccctttgag 1500
aatctggcca agctccagct aatctacttg gatgggttgc cagctatctg gagaaaaaga 1560
tcttctcag aagaataggc ttgttgtttt acagtgttag tgatccattc cttttgacga 1620
tccctagggtg gagatggggc atgaggatcc tccaggggaa aagctcacta ccactgggca 1680
acaaccctag gtcaggaggt tctgtcaaga tactttctct gtcccagata ggaagataaa 1740
gtctcaaaaa caaccaccac acgtcaagct cttcattggt cctatctgcc aaatcattat 1800
acttcttaca agcagtgcag agagctgagt cttcagcagg tccaagaaat ttgaacacac 1860
tgaaggaagt cagccttccc acctgaagat caacatgcct ggcactctag cacttgagga 1920
tagctgaatg aatgtgtatt nntttgtctc tnnctntntt gtnnttgcct tttgttctct 1980
atctaaagtg tgtcttacct atttccatgt ttctcttgct aatttctttc gtgtgtgcct 2040
ttgcctcatt ttctcttttt gtccacaaga gtggtctgtg tcttgtctta gacatatctc 2100
tcatttttca ttttgttgct atttctcttt gctctcctag atgtggctct tctttcacgc 2160
tttatttcat gtctcctttt tgggtcacat gctgtgtgct tttgtcctt ttcttctctc 2220
gtctacctct cctttctctg cctacctctc tttctctctt gtgaactgtg attatttgtt 2280
acccttccc cttctcgttc gttttaaatt tcacctttt tctgagtctg gcctcctttc 2340
tgctgtttct actttttatc tcacatttct ctttctgca tttcctttct gcctctcttg 2400
ggctattctc tctctcctcc cctgcgtgct tcagcatctc ttgctgtttg tgattttcta 2460
tttcagtatt aatctctgtt ggcttgtatt tgttctctgc ttcttccctt tctactcacc 2520
tttgagtatt tcagcctctt catgaatcta tctccctctc tttgatttca tgtaactctc 2580
```

ccttaaatat	ttcttttgc	atgtgggcaa	gtgtacgtgt	gtgtgtgtca	tgtgtggcag	2640
aggggcttcc	taacccctgc	ctgataggtg	cagaacgtcg	gctatcagag	caagcattgt	2700
ggagcgggtc	cttatgccag	gctgccatgt	gagatgatcc	aagaccaaaa	caaggcccta	2760
gactgcagta	aaaccagaa	ctcaagtagg	gcagaagggtg	gaaggctcat	atggatagaa	2820
ggcccaaagt	ataagacaga	tggtttgaga	cttgagaccc	gaggactaag	atggaaagcc	2880
catgtttcaa	gatagataga	agcctcaggc	ctgaaaccaa	caaaagcctc	aagagccaag	2940
aaaacagagg	gtggcctgaa	ttggaccgaa	ggcctgagtt	ggatggaagt	ctcaaggctt	3000
gagttagaag	tcttaagacc	tgggacagga	cacatggaag	gcctaagaac	tgagacttgt	3060
gacacaaggc	caacgaccta	agattagccc	aggggtgtag	ctggaagacc	tacaacccaa	3120
ggatggaagg	cccctgtcac	aaagcctacc	tagatggata	gaggacccaa	gcgaaaaagg	3180
tatctcaaga	ctaacggccg	gaatctggag	gccccagacc	cagaacccag	gaaggataga	3240
agcttgaaga	cctggggaaa	tcccaagatg	agaaacctaa	accctacctc	ttttctattg	3300
tttacacttc	ttactcttag	atattttccag	ttctcctgtt	tatctttaag	cctgattctt	3360
ttgagatgta	ctttttgatg	ttgccggtta	cccttagatt	gacagtatta	tgccctgggcc	3420
agtcttgagc	cagctttaaa	tcacagcttt	tacctatttg	ttaggctata	gtgttttgta	3480
aacttctgtt	tctattcaca	tcttctccac	ttgagagaga	caccaaatac	cagtcagtat	3540
ctaactctggc	ttttgttaac	ttccctcagg	agcagacatt	catataggtg	atactgtatt	3600
tcagtctctt	cttttgaccc	cagaagccct	agactgagaa	gataaaatgg	tcaggttgtt	3660
gggggaaaaa	aagtgccagg	ctctctagag	aaaaatgtga	agagatgctc	caggccaatg	3720
agaagaatta	gacaagaaat	acacagatgt	gccagacttc	tgagaagcac	ctgccagcaa	3780
cagcttcctt	ctttgagctt	aggtgagcag	gattctgggg	tttgggattt	ctagtgatgg	3840
ttatggaaag	ggtgactgtg	cctgggacaa	agcgagggtcc	caaggggaca	gcctgaactc	3900
cctgctcata	gtagtggcca	aataatttgg	tggactgtgc	caacgctact	cctgggttta	3960
atacccatct	ctaggcttaa	agatgagaga	acctgggact	ggtgagcatg	tttaatactt	4020
tccttgattt	ttttcttctt	gtttatgtgg	gaagttgatt	taaatgactg	ataatgtgta	4080
tgaaagcact	gtaaaacata	agagaaaaac	caattagtgt	attggcaatc	atgcagttaa	4140
catttgaaag	tgcagtgtaa	attgtgaagc	attatgtaaa	tcagggtgcc	acagtttttc	4200
tgtaaggggt	caaatcataa	atactttaga	ctgtgggcca	tatggtttct	gttacatatt	4260
tgttttttta	acaacgtttt	tataagggtca	aatcattctt	tagtttttga	gccaattgga	4320
tttggcctgc	tgttcatagc	ttaccacccc	ctgatgtatt	atttgttatt	cagagaaaaa	4380
ttctgaatac	tactagtctt	cttttctgtg	cctgtccctg	tgctaggcac	taaaaatgca	4440
atgattattg	atatctaggt	gacctgaaaa	aaaatagtga	atgtgctttg	taaactgtaa	4500
agcacttgta	ttctactgtg	ataagcgttg	tggatacaaa	gaaaggagca	agcataaaaa	4560
agtgtctctt	caaaaggata	tagtactatg	cagacacaa	gaattgtttg	ataaatgaat	4620
aaatttatatg	tatatattgag	gccaatttgt	gtttgtctgt	ctggtaattt	tgagtaaaaa	4680
tgcagtattc	caggtattcag	aaacgaaaac	acatggaaac	tgctttttaa	ctttaaaata	4740
tactgaaaac	ataagggact	aagcttgttg	tggtcaccta	taatgtgcca	gataccatgc	4800
tgggtgctag	agctaccaa	gggggaaaag	tattctcata	gaacaaaaaa	tttcagaaag	4860
gtgcatatta	aagtgtcttg	taaactaaag	catgatacaa	atgtcaatgg	gctacatatt	4920
tatgaatgaa	tgaatggatg	aatgaatatt	aagtgcctct	tacataccag	ctattttggg	4980
tactgtaaaa	tacaagatta	attctcctat	gtaataagag	gaaagtttat	cctctatact	5040
attcagatgt	aaggaatgat	atattgctta	attttaaaca	atcaagactt	tactggtagg	5100
gttaagttaa	attattactg	atacattttt	ccaggtaaac	aggaaagagc	tagtatagg	5160
aatgaagta	atagatgtga	gatccagacc	gaaagtcact	taattcagct	tgcgaaatgtg	5220
ctttctaaat	tataaagcac	ttgtaaatga	aaaatttgat	gctttctgta	tgaataaaac	5280
tttctgtaa	ctaggtattg	tctctacaaa	attctcattg	tatagttaaa	ccacagtgag	5340
aagggttcta	taagtagtta	tacaaaccaa	gggttttaaa	acctgttaaa	tagatcaatt	5400
ttgattgcct	actatgtgaa	ctcactgtta	aaggcactga	aaatttatca	tatttccattt	5460
agccacagcc	aaaaataagg	caatacctat	gttagcattt	tgtgaactct	aaggcaccat	5520
ataaatgtaa	ctgttgattt	tctcacttgg	tgctgggtac	taggtttata	aaattgtatg	5580
atagttatta	tattgtgcaa	ataaagtagg	aaaatttgaa	taacaatgat	tatcttttga	5640
atacgcatat	gcaagggatt	ggttgtctga	agaatgccac	tatagttagt	atctattgtg	5700
tgccaatctc	attgctaggc	attggggatg	caaagataaa	ccatctttat	tgtgtcttgg	5760
gtagcagaag	aaaatatgtg	taaaatcaat	ttataatttg	taaactgcca	cccatatata	5820
agctatatct	cctgaatgat	cattgattac	tcttatcctt	agagataaca	actgggggca	5880
caaacattta	ttatcattat	tgaacctaca	acagagatct	atgtgtagat	ttacaaagcc	5940
tacagttcta	tacagatagg	aatgaactat	tggcttactg	aatgggtgatt	actttctgtg	6000
gggctcggaa	ctacatgccc	taggatataa	aatgatgtt	atcattatag	agtgtcaca	6060
gaaggaaatg	aagtaatata	ggtgtgagat	ccagacccaa	agtcatttaa	caagtttatt	6120
cagtgatgaa	aacatgggac	aaatggacta	atataaggca	gtgtactaag	ctgagtagag	6180
agataaaagt	ctgtccagaa	gatacatgct	tcttggcctg	attgaggaga	tggaaaattt	6240

```

ttgcaaaaaa caaggtgttg tggctttcca tccagtttct taagtgtctga tgataaaaagt 6300
gaattagacc caccttgacc tggcctacag aagtaaagga gtaaaaaata atgcctcagg 6360
cgtgcttttt gattcatttg ataaacaaag catcttttat gtggaatata ccattctggg 6420
tcctgaggat aagagagatg agggcattag atcactgaca gctgaagata gaagaacatc 6480
tttggtttga ttgtttaaat aatatttcaa tgcctattct ctgcaaggta ctatgtttcg 6540
taaattaaat aggtctggcc cagaagaccc actcaattgc ctttgagatt aaaaaaaaaa 6600
naaaaaagaa agaaaaatgc aagtttcttt caaaataaag agacattttt cctagtttca 6660
ggaatcccc aaatcacttc ctcatgtggt tagtttaaag ccaggagact gataaaaggg 6720
ctcaggggtt gttctttaat tcattaacta aacattctgc ttttattaca gttaaattgg 6780
tcaagatgta acaactagtt ttaaaggat ttgctcattg gtctggctta gagacaggaa 6840
gacatagtag caataaaaaa aagattcttt tgcatttacc aatttagtaa aaatttatta 6900
aaactgaata aagtgtctgt cttaaagtgc tgaaagacgt aaaccaaagt gcactttatc 6960
tcatttatct tatggtggaa acacaggaa aaattctcta agagactgtg tttctttagt 7020
tgagaagaaa cttcattgag tagctgtgat atgttcgata ctaaggaaaa actaaacaga 7080
tcacctttga catgcgttgt agagtgggaa taagagaggg ctttttattt tttcgttcat 7140
acgagtattg atgaagatga tactaaatgc taaatgaaat atatctgctc caaaaggcat 7200
ttattctgac ttggagatgc aacaaaaaca caaaaatgga atgaagtgat actcttcac 7260
aaacagaagt gactgttatc tcaaccattt tgttaaattc taaacagaaa acaaaaaaaa 7320
tcatagcgaa aagacacttg cttattaatt ggcttggaat gtagaatata ggagaaagg 7380
tactgtttat tttttttcat gtattcattc attctacaaa tatattcggg tgccagtagg 7440
tacttggtat aaggtttttg gcccagaga catgggaaaa aaatgcatgc cttccagag 7500
aatgcctaata actttccttt tggcttggtt tcttggttagg ggcattggctt agtccctaaa 7560
taacattgtg tggtttaatt cctactccgt atctcttcta ccactctggc cactacgata 7620
agcaggtagc tgggttttgt agtgagcttg ctcttaagt tacaggaact ctcttataa 7680
tagacacttc attttcctag tccatccctc atgaaaaatg actgaccact gctgggcagc 7740
aggagggatg atgaccaact aattcccaaa cccagctctc attggtacca gccttgggga 7800
accacctaca cttgagccac aattggtttt gaagtgcatt tacaaggttt gtctattttc 7860
agttctttac tttttacatg ctgacacata catacactgc ctaaatagat ctctttcaga 7920
aacaactctc agataacgca tagcaaaatg gagatggaga catgatttct catgcaacag 7980
ctctctaat taticcttag aaatgttctc ctttttatca tcaaatctgc tcaagaagg 8040
ctttttatag tagaataata tcagtggatg aaaacagctt aacattttac catgtttaag 8100
ttttaagaat aaaataaaaa ttggaaataa ttggccaaaa ttgaaaggaa aaattttttt 8160
aaaatttctc taaatgtagg cctggctggg ctttgacctt ttccgttttt aaatcactca 8220
cagaggggtg gacaggagga agagtgaagg aaaagggtcaa acctgtttta agggcaacct 8280
gcctttgttc tgaattggtc ttaagaacat taccagctcc aggtttaaat tgttcagttt 8340
catgcagttc caatagctga tcattgttga gatgaggaca aaatcctttg tctcactag 8400
tttgctttac atttttgaaa agtattattt ttgtccaagt gcttatcaac taaaccttgt 8460
gttaggtaag aatggaattt attaatgtga tcagtgtgac ccttcttgtc ataagattat 8520
cttaaagctg aagccaaaat atgcttcaaa agaagaggac tttattgttc attgtagttc 8580
atacattcaa agcatctgaa ctgtagtttc tatagcaagc caattacatc cataagtgga 8640
gaaggaaaata gataaatgtc aaagtatgat tgggtggagg agcaaggttg aagataatct 8700
ggggttgaaa ttttctagtt ttcatctctg acatttttag ttagacatca gatttgaaat 8760
attaatgttt acctttcaat gtgtggtatc agctggactc agtaacaccc ctttcttcag 8820
ctggggatgg ggaatggatt attggaaaat ggaaagaaga aagtaactaa aagccttcct 8880
ttcacagttt ctggcatcac taccactact gattaaacaa gaataagaga acattttatc 8940
atcatctgct ttattcacat aaatgaagtt gtgatgaata aatctgcttt tatgcagaca 9000
caaggaatta agtggcttcg tcattgtcct tctacctcaa agataattta ttccaaaagc 9060
taagataaat ggaagactct tgaacttgtg aactgatgtg aaatgcagaa tctcttttga 9120
gtctttgctg tttggaagat tgaaataat tgttcagcat gggtgaccac cagaaagtaa 9180
tcttaagcca tctagatgtc acaattgaaa caaactgggg agttgggttc tattgtaaaa 9240
taaaatatac tgttttgaaa ac

```

<210> 75

<211> 7647

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 334247.2

<220>

<221> unsure

<222> 4641

<223> a, t, c, g, or other

<400> 75

```

cggaccctgc ggccecccggt cccgggtccc ggccgggtcgc ggggagaagg cgcccagagg 60
gaggcgccgg acagatcgct tttcggaggc ggccgagggtg ctgtaaactg caaaccataa 120
tcctgtctta atactgcaaa caaatcatag tggaaactaag gggaacttaa tttactgttt 180
ccagggttaac taaggctctca gctgtaaacc aaaagtgaga ggagacatta agattttcat 240
tcttaccggg ttgtcttctt cctgaagagc aatggagccg cttttacttg gaagaggact 300
aatcgtatat ctaatgttcc tcctgttaaa attctcaaaa gcaattgaaa taccatcttc 360
agttcaacag gttccaacaa tcataaaaca gtcaaaaagtc caagttgcct ttcccttcga 420
tgagtatttt caaattgaat gtgaagctaa aggaaatcca gaaccaacat tttcgtggac 480
taaggatggc aacccttttt atttactga ccatcggata attccatcga acaattcagg 540
aacattcagg atcccaaacg aggggcacat atctcacttt caagggaaat accgctgctt 600
tgcttcaaat aaactgggaa tcgctatgtc agaagaaata gaatttatag ttccaagtgt 660
tccaaaattc ccaaaagaaa aaattgacct tcttgaagtg gaggaggagg atccaattgt 720
cctcccatgc aatcctccca aaggcctccc acctttacac atttattgga tgaatattga 780
attagaacac atcgaacaag atgaaagagt atacatgagc caaaaggagg atctatactt 840
cgcaaacgtg gaagaaaagg acagtcgcaa tgactactgt tgctttgctg catttccaag 900
attaaggact attgtacaga aaatgccaat gaaactaaca gttaacagtt caaagcatgc 960
taatgactca agttcatcca cagaaattgg ttccaaggca aattccatca agcaaagaaa 1020
acccaaactg ctgttgccct cacttgagag tggcagtgag tcttcaatta ccatcctcaa 1080
aggggaaatt ttgctgcttg agtggtttgc tgaaggcttg ccaactccac aggttgattg 1140
gaacaaaatt ggtggtgact taccaaaggg gagagaagca aaagaaaatt atggcaagac 1200
tttgaagata gagaatgtct cctaccagga caaaggaaat tatcgctgca cagccagcaa 1260
tttcttgggg acagccactc acgattttca cgttatagta gaagagcctc ctcgctggac 1320
aaagaagcct cagagtgtctg tgtatagcac cggaagcaat ggcactctgt tatgtgaggc 1380
tgaaggagaa cctcaaccga caatcaagtg gagagtcaat ggctccccag ttgacaatca 1440
tccatttgct ggtgatgttg tcttccccag ttaaccaacc ttcaaccaaa 1500
tcatactgct gtgtaccagt gtgaagcctc aaatgtccat ggaactatcc ttgccaatgc 1560
caatattgat gttgtggatg tccgtccatt gatacaaac aaagatggag aaaattacgc 1620
tacagtgggt gggtagcagt ctttcttaca ttgcgagttc ttgtcttcac ctgaggcagt 1680
cgtgtcctgg cagaagggtg aagaagtga acccctggag ggcaggcggg atcatatcta 1740
tgaaaatggc acattgcaga tcaacagaac caccgaagaa gatgctgggt cttactcatg 1800
ttgggtagaa aatgctatag gaaaaactgc agtcacagcc aatttgata ttagaatgc 1860
tacaaaactt agagtttctc ctaagaatcc tcgtatcccc aaattgcata tgcttgaatt 1920
acattgtgaa agcaaatgtg actcacattt gaaacacagt ttgaagttgt cctggagtaa 1980
agatggagaa gcctttgaaa ttaatggcac agaagatggc aggataatta ttgatggagc 2040
taatttgacc atatctaatt taactttaga ggaccaaggt atttactgct gttcagctca 2100
tactgtcta gacagtgtg cggatataac tcaagtaact gttcttgatg ttccggatcc 2160
accagaaaac cttcacttgt ctgaaagagt gtaacgaggt gttcggctga cctgggaagc 2220
tggagctgac cacaacagca atattagcga gtatatgtt gaatttgaag gaaacaaaga 2280
agagcctgga aggtgggagg aactgaccag agtccaagga aagaaaacca cagttatctt 2340
acctttggct ccatttgtga gataccagtt cagggtcata gccgtgaacg aagtagggag 2400
aagtcagcct agccagccgt cagaccatca tgaaacacca ccagcagctc cagataggaa 2460
tccacaaaaa ataagggttc aagcctctca acccaaggaa atgattataa agtgggagcc 2520
tttgaaatcc atggagcaga atggaccagg cctagagtac agagtgcctt ggaagccaca 2580
gggagcccca gtggagtggg aagaagaaac agtcacaaac cacacattgc gggatgatgac 2640
gcctgtgtc tatgccctt atgatgtcaa ggtccaggct atcaatcaac taggatctgg 2700
gcctgaccct cagtcagtga ctctctatc tggagaagac tatcctgata cagctccagt 2760
gatccatggg gtggacgtta taaacagtac attagttaaa gttacctggg caacagttcc 2820
aaaggacaga gtacatggac gtctgaaagg ctatcagata aattgggtga aaacaaaaag 2880
tctgttggat ggaagaaac atcccaagc ctaagatttt caggacaag 2940
aaactctgga atggttccct ccttagatgc ctttagtgaa tttcatttaa cagtcttagc 3000
ctataactct aaaggagctg gtctgaaag tgagccttat atatttcaa caccagaagg 3060
agtacctgaa cagccaactt ttctaaagg catcaaagtt gataaagaca ctgccacttt 3120
atcttgggga ctacctaaga aattaaatgg aaacttaact ggctatcttt tgcaatatca 3180
gataataaat gacacctacg agattggaga attaaatgat attaacatta caactccatc 3240
aaagcccacg tggcacctct caaacctgaa tgcaactacc aagtacaaat tctacttgag 3300

```

ggcttgact	tcacagggct	gtggaaaacc	gatcacggag	gaaagctcca	ccttaggaga	3360
agggagtaaa	ggtatcggga	agatatcagg	agtaaatctt	actcaaaaga	ctcaccaggt	3420
agaggatattt	gagccgggag	ctgaacatat	agttcgcccta	atgactaaga	attggggcga	3480
taacgatagc	atttttcaag	atgtaattga	gacaagaggg	agagaatatg	ctggttttata	3540
tgatgacatc	tccactcaag	gctggtttat	tggactgatg	tgtgcgattg	ctcttctcac	3600
actactatta	ttaactgttt	gctttgtgaa	gaggaataga	ggtggaaagt	actcagttaa	3660
agaaaaggaa	gatttgcac	cagaccocaga	aattcagtc	gtaaaagatg	aaacctttgg	3720
tgaatacagt	gacagtgatg	aaaagcctct	caaaggaagc	cttcggtccc	ttaataggga	3780
tatgcagcct	actgaaagtg	ctgacagctt	agtcgaatac	ggagaggggag	accatgggtct	3840
cttcagtgaa	gatggatcat	ttattgggtgc	ctacgctgga	tctaaggaga	agggatctgt	3900
tgaaagcaat	ggaagttcta	cagcaacttt	tccccttcgg	gcataaacac	aacatatgta	3960
agcaacgcta	ctggttcacc	ccaaccttcc	atatttatct	gttcaaagga	gcaagaactt	4020
tcatatagga	atagaaacat	gctggccgaa	gatttcatcc	agaagtcaac	atcctgcaat	4080
tatgttgaaa	agagtagtac	tttcttcaaa	atataaaatg	ccaagcactt	caggcctatg	4140
ttttgcttat	attgttttca	ggtgctcaaa	atgcaaaaaca	caaaacaaat	cctgcatttta	4200
gatacacctc	aactaaatcc	aaagtcoccca	ttcagtatat	tccatatttg	cctgatttta	4260
ctattcggtg	tgtttgcata	gatgttgcta	cttggtgggt	ttttctccgt	atgcacattg	4320
gtatacagtc	tctgagaact	ggcttggtga	ctttgcttca	ctacagggtta	aaagaccata	4380
agcaaaactgg	ttatttaaaa	tgtaaaaagg	aatatgaaag	tcttattaaa	acacttcatt	4440
gaaaatatac	agtctaaatt	tattatttta	attttactag	caaaagtctt	aggtgaacaa	4500
tcaactagta	ttgtttgagc	tcctattttgc	ccagagatgg	tcatatttaa	acagaagtat	4560
acgtttttca	gtttcaacat	gaattttttt	atttctgtca	gttatgacat	ccacgagcat	4620
cactttttgt	gtctgttttt	ntttttttct	tggactaaat	tcaactgcat	ggaagcgggtg	4680
gtcagaaggt	tgttttatac	gagaacaggc	agaaagtgcc	cattgttcag	gattctaata	4740
gctacatcta	cttaatatct	tcattttcta	attgactgct	tttacctttt	tctcatgttt	4800
atataatggt	atgcttgcac	atattttcatg	aatacattgt	acatattatg	ttaatatttta	4860
cacaatttaa	aatatagatg	tgttttatatt	tgaagtgaga	aatgaacat	taacaggcat	4920
gtttgtacag	ctagaatata	ttagtaagat	actgtttttc	gtcattccag	agctacaact	4980
aataacacga	ggttccaaag	ctgaagactt	tgtataaagt	atttgggttt	tgttcttgta	5040
ttgcttttct	tcaacagttt	caaaaataaaa	tatcatacaa	atattgaggg	aatgtttttc	5100
atatttttca	aaatagggtt	ttattgttga	atgtacatct	acccagccc	ctcaaaagaa	5160
aaactgttta	catagaaatt	cctacacata	cgtttgcgta	tatgttattt	taaacatctt	5220
tgtggtgaga	attttttccc	cgatattctc	cttctgtcaa	agtcagaaca	aattcaggga	5280
atttattttc	tggcagttgt	gctccagtc	ttttaaaatt	gtacatgaac	atgttttaga	5340
aacaatatgg	aggatgatgc	atacatgtcg	gtcaagttca	gcgctcgaca	ttttatggaa	5400
agattttttt	aacctttacca	cgaaataact	aactactgtt	taagtgaatt	gacttatttc	5460
acttttagttt	ttgaactgtg	attattggta	tactgttata	tctcaactt	ggatttatgg	5520
taaccctttt	tagttcatgg	agaccaaaat	ttggggattt	tataatagtc	agcgcaggaa	5580
tgcacatgga	atatctactt	gtccttttga	acctcacgag	tcatccagaa	tgtatagaca	5640
ggaaaagcat	gtcttattta	aaactgtaat	ttatgggctc	aggatctgac	cgcagtcocg	5700
ggagtaagca	tttcaaaggg	ggaaggcagt	gtggtcccta	cctgtgtgta	atgtgaggat	5760
gtagacatcc	atcagtgcaa	ctgcgagctc	catcctcttc	cgatttctaa	ggttccagtt	5820
ttctgagagg	acagttcatca	tgttttgatt	tatctgggag	aaaactgtgg	tgcacagctt	5880
gtgaggaggg	caaggtttgtg	acgttcgagc	ttagttctgg	tgttattctg	tctcctcttc	5940
tttgtcatca	gccaaaacgt	ggttttttaa	gagagtcacg	caggttagaa	ataatgtcaa	6000
aaatattttag	gaatttaata	acctttaagt	cagaaactaa	aacaaatact	gaaatattag	6060
ctcttcctac	acttcgtgtt	ccccctttagc	tgcctgaaaa	tcaagattgc	tcctactcag	6120
atcttctgag	tggtctaaaac	ttatggatat	gaaaaatgag	attgaatgat	gactatgctt	6180
tgctatcatt	gttacctttc	ctcaatacta	ttgggcaact	actgggactc	ttcagcaca	6240
aaggaaataga	tctatgattg	accttgattt	taattgtgaa	atttatatgat	tcatatattt	6300
tatgaatcag	aataaccttc	aaataaaaata	aactaagtc	ggttaaaatg	gatttcatga	6360
ttttccctca	gaaaatgagt	aacggagtc	acggcggtgca	atggtaatta	taaattgggtg	6420
atgcttggtt	gcaaatggcc	cactcgtgat	aagtcaacag	ccaatattta	aaactttgtt	6480
cgttactggc	tttaccctaa	cttctctag	tctactgtca	atatcatttt	aatgtaattg	6540
attgtatata	gtctcaagaa	tggttggtgg	gcatgagttc	ctagagaact	gtccaagggt	6600
tggaaaaatc	caaattctct	tcttggtctc	agcactgatt	ttgtacataa	acattaggca	6660
ggttgcttaa	cctttttatt	tcaaaactctc	tcaactctaa	agtgtctaata	ataatctcag	6720
ttaccttate	tttgtcacag	ggtgttcttt	tttatgaaga	aaaatttgaa	aatgataaaa	6780
gctaagatgc	cttctaactt	cataagcaaa	cctttaacta	attatgtatc	tgaaagtcac	6840
ccccacatac	caactcaact	tttttctgtg	gaacacataa	atatattttt	atagaaaaac	6900
aaatctacat	aaaataaact	tactgttttag	tgagcagtat	gacttgta	tgccattgaa	6960

PA-0024 US

aattattaat	cagaagaaaa	ttaagcaggg	tctttgctat	acaaaagtgt	tttccactaa	7020
ttttgcatgc	gtatttataa	gaaaaatgtg	aatttggtgg	ttttattcta	tcggtataaa	7080
ggcatcgata	tttttagatgc	acccgtgttt	gtaaaaatgt	agagcacaat	ggaattatgc	7140
tggaagtctc	aaataatatt	tttttcctat	tttatactca	tggaagagat	aagctaaaga	7200
ggggacaata	atgagaaatg	ttggtgtgct	tttctaagca	tttaaaacat	aattgccaat	7260
tgaaacccta	aatatgttta	cataccatta	agatatgatt	catgtaacaa	tgttaaatta	7320
attataatgg	gattgggttt	gttatctgtg	gtagtatata	tcctagtgtt	cctatagtga	7380
aataagtagg	gttcagccaa	agctttcttt	gttttgtacc	ttaaattgtt	cgattacgtc	7440
atcaaaagag	atgaaaggta	tgtagaacag	gttcacgtga	ttaccttttt	cttttggctt	7500
ggattaatat	tcatagtaga	actttataaa	acgtgtttgt	attgtagggtg	gtgtttgtat	7560
tatgcttatg	actatgtatg	gtttgaaaat	attttcatta	tacatgaaat	tcaactttcc	7620
aaataaaagt	tctacttcat	gtaatcc				7647

<210> 76

<211> 1738

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233456.8

<400> 76

ccagctgctg	cagccgcaga	ggcagccgga	ggcagagggg	cggcgggcag	gaccagacag	60
ggctgggag	ggggctggcc	gagcgccgtg	cgcgccttgg	gagaaggccg	gaagcttacc	120
agccgagaag	gaattcctag	ctagcttcag	agccggtgcc	tccggagcca	gcgtggtggc	180
catagacaac	aagatcgaac	aggccatgga	tctggtgaag	aatcatctga	tgtatgctgt	240
gagagaggag	gtggagatcc	tgaaggagca	gatccgagag	ctggtggaga	agaactccca	300
gctagagcgt	gagaacaccc	tggtgaagac	cctgggcaag	cccagagcag	ctggagaagt	360
tccagtcctg	tctgagccct	gaagagccag	ctcccgaatc	cccacaagtg	cccagggccc	420
ctgggtggtc	tgcggtgtaa	gtggctctgt	cctcaggggtg	ggcagagcca	ctaaacttgt	480
tttacctagt	tctttccagt	ttgttttttg	ctccccaaagc	atcatctcac	gaggagaact	540
ttacacctag	cacagctggg	gccaaagagat	gtcctaagga	catggccacc	tgggtccact	600
ccagcgacag	acccctgaca	agagcagggtc	tctggagggt	gagttgcatg	gggcctagta	660
acaccaagcc	agtgagcctc	taatgctact	gcgccttggg	ggctcccagg	gcctgggcaa	720
cttagctgca	actggcaaag	gagaagggtg	gtttgagggtg	tgacaccagt	ttgctccaga	780
aagttttaagg	ggtctgtttc	tcatctccat	ggacatcttc	aacagcttca	cctgacaacg	840
actgttccta	tgaagaagcc	acttgtgttt	taagcagagg	caacctctct	cttctcctct	900
gtttcgtgaa	ggcaggggac	acagatggga	gagattgagc	caagtcagcc	ttctgttggg	960
taatattggt	taatgcatgg	ctttgtgcac	agcccagtg	gggattacag	ctttgggatg	1020
accgcttaca	aagttctgtt	tggttagtat	tggcatagtt	tttctatata	gccataaatg	1080
cgtatatata	cccatagggc	tagatctgta	tcttagtgta	gcatgtata	catatacaca	1140
tccacctaca	tgttgaagg	cctaaccagc	cctgggagta	ttgactgggc	ccttacctct	1200
tatggctaag	tctttgactg	tgttcattta	ccaagttgac	ccagtttgct	ttttagggtta	1260
agtaagactc	gagagtaaag	gcaaggagg	gggccagcct	ctgaatgcgg	ccacggatgc	1320
cttgctgctg	caaccctttc	cccagctgtc	cactgaaacg	tgaagtcctg	ttttgaatgc	1380
caaaccacc	attcactggg	gctgactaca	tagaatgggg	ttgagagaag	atcagtttgg	1440
gcttcacagt	gtcatttgaa	aacgtttttt	gttttgtttt	gtaattattg	tggaaaactt	1500
tcaagtgaac	agaaggatgg	tgctctactg	tggatgagg	atgaacaagg	ggatggcttt	1560
gatccaatgg	agcctgggag	gtgtgcccag	aaagcttgct	tgtagcgggt	tttgtgagag	1620
tgaacacttt	ccactttttg	acaccttata	ctgatgtatg	gttccaggat	ttggattttg	1680
attttccaaa	tgtagcttga	aatttcaata	aactttgctc	tgtttttcta	aaaaaaaa	1738

<210> 77

<211> 2823

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 408334.3

<400> 77

```

cgccccacctc tcgtaaccaa tggaaaccgcg gcgctcggcc gattctcgca ggcgcctca 60
gatctacgct ctctgatgca acgccggaat cgcggaaacc gccggtgcac gttggagtca 120
taagacggcg tcggtgttgc agtctgtgtc cttggagggtg accagggcca ctgcaggcat 180
ggtgctagca gagctgtacg tctctgaccg agagggaagc gatgccacgg gagatggaac 240
caaggagaaa ccatttaaaa caggtctaaa ggctttgatg acagtaggga aagaaccatt 300
tcctaccatt tacgtagatt cacaaaaaga aaatgagagg tggaatgtta tttctaaatc 360
acagttgaag aacattaaaa agatgtggca tagggaacaa atgaagagtg aatccccgga 420
aaagaaagag gcagaagata gtttacgaag agaaaagaac ctggaagaag caaagaagat 480
taccattaaa aatgatccaa gtctcccaga gccaaaatgt gtgaagattg gtgcgttaga 540
aggatataga ggccaaagag taaaggtgtt tggtcaggat cacaggctgc gcaggcaagg 600
aaagaatttta atgtttctgg tgttgcgaga tggtagctgt tatcttcagt gtgtcttggc 660
ggatgagttg tgtcagtgtc acaatggagt tctcttgtcc acggagagca gtgttgcagt 720
gtatggaatg ctaaaatctta ccccaaaggg caagcaggct ccagggtggc atgagctgag 780
ttgtgacttc tgggaactaa ttgggttggc cctgctgga ggagctgaca acctgatcaa 840
tgaggagtct gacgttgatg tccagctcaa caacagacac atgatgatcc gaggagaaaa 900
catgtccaaa atcctaaaaag cagcatccat ggtcaccagg tgcttttagag atcacttctt 960
tgataggggg tactatgaag ttactcctcc aacatttagtg caaacacaag tagaagggtg 1020
tgccacactc ttcaagcttg actatttttg ggaagaggca tttttgactc aatcctctca 1080
gttgtacttg gagacctgcc tcccagccct gggagatgtt ttttgtattg ctcagtcata 1140
ccgggcagag cagtccagaa cacgaaggca cctggctgag tacactcacg tggaagctga 1200
gtgtcctttc ctgacttttg acgacctcct gaaccgggtg gaggacttgg tttgtgatgt 1260
ggtagatcga atattgaagt cacctgcagg gagcatagtg catgagctca acccgaaact 1320
tcagccccc aaacggcctt tcaaacggat gaactattca gatgctatcg tttggctaaa 1380
agaacatgat gtaaagaaag aagatggaac tttctatgaa tttggagaag atatccaga 1440
agctcctgag agactgatga cagacaccat taatgaacca atcttgetgt gtcgatttcc 1500
tgtggagatc aagtccttct acatgcagcg atgtcctgag gattcccgtc ttactgaatc 1560
tgtcgacgtg ttgatgccc atgttgggtg gatttgtgga ggtcfaatgc gtatctttga 1620
tagtgaagaa atactggcag gttataaaaag ggaagggtt gacccactc cctattactg 1680
gtatagcgat acgggtacat acgggtacatg tcccattgga ggatattggc tgggcttggg 1740
acgattctta acgtggattc tgaataggta tcacatccga gacgtgtgct tataccctcg 1800
atltgtccag cgttgcacgc cataaccatt ttctccagaa gcgtggagga aagattatga 1860
aaggaacagg ctcttttaaaa aagaaaacaa aaagccagaa tcttcctttt tttgtttcat 1920
tgggggtttc ctttctgttt ttctttctac taccataaaa actatctcaa atcacctgaa 1980
catcaagtga tattaaggtt gtcactctaa gaaaaaatat ccattttttt cttagttcg 2040
ggaaacaaag ttcggggaaa atacctggca tgaaactgta gttagggata catttcagca 2100
ttttactcac tttatccaag ttattcattt tattcaagtt atatgtatgt ataattcaac 2160
aattttagat tatgggtgtaa gatactccag taacttatct ttctgtcctt ttaagtgtac 2220
cttgaattct ttgatttatt ttattgcac aatgaattaa aacaaaaatc ttgggggaag 2280
aaattggcaa tatcgtataa aaatctgtct atattagaac acagtataat tcagcagtaa 2340
acactagaat caaatgaata gccttttcta tcagttatta atcttttcta actctgctta 2400
gctgctaata atcctgagc atagaaattg aagaatttgt aaaaatagaa ttgccttaaa 2460
ggatttgaag taagaacata attttgggga gagtttttta gtgattcaca gtatccctct 2520
tagcattaat ttaaggtaaa gaggcagatt gattttccct ctttctggtt aattcctaag 2580
taattaagaa taaataagtt ccaaaagaaa ttgtagctgg aatcttaata acaattgtga 2640
gtggctgttt gagttgcccc caccatgtcc ttagatctaa tctgtgtac cttattaact 2700
cacagcaggc ttactgaatg gcttcatttc agatttagtt gattttctca ccaaatgcat 2760
gtcatgtatt ctcaataggc tgtattccca gcagtcaata aatgaacacc cgtaaaaact 2820
ctt

```

<210> 78

<211> 546

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 986408.2

<400> 78

```

tgaggctatc ctttacggca ggcgtccgcg tcgctagcta gtcgttctga agcggcgccc 60

```

PA-0024 US

agagaagagt	caagggcagc	agcatcggcc	atgcctttct	tggacatcca	gaaaagggttc	120
ggccttaaca	tagatcgatg	gttgacaatc	cagagtgggtg	aacagcccta	caagatgggt	180
ggtcgaatgcc	atgcttttga	aaaagaatgg	atagaatgtg	cacatggaat	cggttatact	240
cgggcagaga	aagagtgcga	gatagaatat	gatgatttcg	tagagtgttt	gcttcggcag	300
aaaacgatga	gacgtgcagg	taccatcagg	aagcagcggg	ataagctgat	aaaggaagga	360
aagtacaccc	ctccacctca	ccacattggc	aagggggagc	ctcggccctg	aacagagcag	420
ctgctgatgt	ctggaggctg	attttcctgt	tctctgttct	ccactggaaa	ggttgtttac	480
gacaaacctc	cttgtcaaag	tgtgtaaaaa	taaaggattg	ctccatccta	aaaaaaaaaa	540
aaaagc						546

<210> 79

<211> 2015

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 251918.2

<400> 79

gcgtcaatgc	gcccgcctgt	tccatggaga	gaagctgagg	cggccgacct	tcggccccgag	60
gcaccggggc	gccgggacgg	cgaagatgtc	ggcttcctta	gtccgggcaa	ctgtccgggc	120
tgtgagcaag	aggaagctgc	agcccacccg	ggcagccctc	accctgacac	cttcagcagt	180
aaacaagata	aaacaacttc	ttaaagataa	gcctgagcat	gtagggtgtg	aagttgggtg	240
ccgaaccagg	ggctgtaatg	gcctttctta	tactctagaa	tatacaaaga	caaaaggaga	300
ttctgatgaa	gaagttattc	aagatggagt	cagagtattc	atcgaagaag	aagcacagct	360
aacactttta	ggaacagaaa	tggactatgt	tgaagacaaa	ttatccagtg	agtttggtgt	420
caataaccca	aacatcaaag	ggacttgtgg	ctgtggagaa	agctttaata	tttgaaatct	480
caggactctt	ctggccgtag	gttccaggaa	agctcgtgga	agctttgggg	ctcactgcag	540
aaatcatgtg	actgtcacgt	gctggaaaaa	aaagtgtatc	atcttgaaaa	tgaatccagt	600
gtgttggtat	ccagaagaaa	tgatatttat	attctctata	ggggacagaa	aatgagaagc	660
catcactctt	tttgatcat	ttaggtctct	tgtatccttt	gttttagaac	cagtttcatt	720
aaagttgcct	tcctgggcac	ctgtttatcc	atttctgtaa	ctgtgtgcac	tccttagatc	780
gctattgatg	gcttgatcat	ccctcagcat	ttctcccaac	cagatcgggtg	actcctaaaa	840
tctgagacag	gacatcgtga	ctgctggtag	taatatgggtg	gtgcattgtt	ttttccaccc	900
aaacttaaca	tagccttttt	atacattttt	atgaaaaaatt	tcattgtcag	ctgcctcact	960
gcatactctt	taatagtacc	aggcaaagat	ttcttccaac	tatagtacag	attagttctg	1020
agtgatggta	tcaaaagggtg	agaaagacgt	catccgcctt	tttttaatcc	atttcttttg	1080
ccaccctata	tgtctgttca	gagatgggct	ctcaagctga	ctttgattct	tttagttgag	1140
aagtctctta	aagccatcta	gcccacctcc	atcaattccc	tatgtgagga	agcaaaaccc	1200
cagggaagcc	aaagggtctc	tgtccacctc	gacaccacag	gccgggggag	agtagggact	1260
ctacccccct	ctccccctgt	aggtgacaca	tgctctgccc	tctgaggcag	tcagcgaagg	1320
caaatggctc	gacttcttta	tgtgggtcaac	attttgatag	aatttcttta	taatttgata	1380
gagattatat	tattttttatt	ttatttttgag	tgggaagaat	tttaaaacct	ttttatgtca	1440
attaccatct	tgtttctttc	acctttgaaa	caatggtttg	tagcagagat	gacattgtag	1500
caacccagaa	ttatgctttt	ggaatgtggg	cctcactgta	caggagaatg	tgtaatcttt	1560
tgtaaaaatt	cccagtgtgc	atacattttc	tggttcctcg	gtccagttgc	taaagttctt	1620
agtatttttag	cctaacatat	ttatcaccaa	cttttcttta	aaagtgttcc	ttttgtcact	1680
tagttactga	ttttcctggg	tttgacataa	gtattctatg	agatgatata	tatgcttttt	1740
ttgaaagctg	attctcatga	attcaagtag	ctgagttcct	ttatgtttcg	tttattcact	1800
aaagtagctg	acacaaaaca	cacaaaaacc	tagagcggta	gttttatgta	aatgctcatg	1860
agttttgtatc	aataatataa	ttgttgatcc	acttataaatt	cgtgcaacac	tgtatgtatg	1920
tagagattga	gttgtcaatt	aaaaaaaaatg	tggcctcttt	gtgatcataa	aattgccttt	1980
tattattgag	gggagagggg	ttgggacagc	agctg			2015

<210> 80

<211> 2628

<212> DNA

<213> Homo sapiens

<220>

PA-0024 US

<221> misc_feature

<223> Incyte ID No: 474401.5

<400> 80

```
ggggcgcgcg actgctccgg gcggcgatgg cggcgggacgg ggactggcag gatttctatg 60
agttccagga gccggcccgg agcctcctgg accaggagaa ctgtaacgag agccccgagc 120
ctggggcgga ggccggggggc gggcggggtg gggcgccga cggtttcccg gccctggcct 180
gcagcttgga ggagaagctg agcctgtgct tccgcccctc ggatccgggg cgccgagccc 240
ccgaggacgg ccgtgcggcc catcacggag cgcacctctc gcaggggggac gagatttgga 300
atgccctgac agataattat gggaatgtga tgcctgtaga ctggaagtca tcgcatacta 360
ggaccttggc acttgcttac tctgaacctc tcagaaaaag gggtaagtga cagtttgctc 420
tttgatacat cagatgatga agagctgaga gaacagctgg atatgcactc aatcatcgct 480
tcctgtgtta atgatgaacc cctcttcacg gcagaccagg ttattgaaga aattgaagaa 540
atgatgcagg aatcacccga cccagaagat gatgaaaccc ctacacagtc agatcggcct 600
tcaatgcttt cccaggaaat tcaaactctc aagagggtcta gtaccggcag ttatgaagag 660
agagtgaaaa ggctctcagt gtctgagtta aatgaaatcc tggagaagaa tgagactgcc 720
attaaggagt actctgagga gctgggtgcag cagttggcct tacgagatga actggagttt 780
gaaaaggagag tgaaaaacag ctttatttct gttcttattg aagtgcacaaa caaacagaaa 840
gagcacaacag aaacagcaaa aaagaaaaag aaactaaaaa atggcagctc tcagaatggg 900
aagaatgaga gaagtcatat gcccggcaca tatttgacta cagtcattcc ttatgagaaa 960
aaaaacggac caccgtctgt tgaagatctt caaatattaa caaaaattct tcgtgccatg 1020
aaggaggaca gtgaaaaagt tccgagcttg ttaactgatt atattctgaa agttctgtgt 1080
cctacataga gcagcaactt tatctgcggt gggctccaag ctagatttcc gacagcatta 1140
ttctgagagc tggctaccat tacccttctt gctattggaa actcagcaca ttggaacttg 1200
ggtttgattc agtattaaca gatcttgact acactaattc tttatattat agaaccaacg 1260
gaaatatggg cactattttg aattctagag atgggttttg ttaaactctac taataaactg 1320
ttctcttagt agattaagag agagtaatat taattgtgca tgtgcagttg tatttctcat 1380
taactgacag tatgcccatt tgtttttatg gctttcttat ctaaactgca ctgatgaact 1440
agattaaagc cttgggagat ttatactata aattcagtgat tggcaagaac caacactggt 1500
tttttgtgag aattgtcagt gtaactatta cctaccagta ttgttcagag agattgaaac 1560
agaataaacg ggctgttctt gaagaagcaa aaccagaata tgcattactt tggtttaata 1620
cttagtgcta acattgaaac tggtgggtgg gatggatttt gtagcttgct gcttcaagaa 1680
cagcccgttt attctgtttc aatctctctg aacaatactg gtaggttaata gttacactga 1740
caattctcac aaaaaaacag tggtgggtct tgccatcact gaatttatag tataaatctc 1800
ccaaggcttt aatctagttc atcagtgacg tttagataag aaagccataa aaacaaatgg 1860
gcatactgtc agttaatgag aaatacaact gcccatgcac aattaatatt actctctctt 1920
aatctactaa gagaacagtt tattagtaga ttttaacaaa accatctcta gaattcaaaa 1980
tagtgcccat atttccgttg gttctataat ataaagaatt agtgtagtca agatctgtta 2040
atactgaatc aaaccaagat tcaaagtgtc tgagtttcca atagcaagaa gggtaatggg 2100
agccagctct cagaataatg ctgtcggaaa tctagcttgg agcccaccgc agataaagtt 2160
gctgctctat gtaggacaca gaactagaag aaaaagagaa ctttcagaat ataactcagt 2220
aacaagctcg gaacttttct actgtcctcc ttcattggcag gaagaatttt tgtaatat 2280
tgaagactct caacagacgg tggtccgttt ttttctcat aagggaatgac tgtagtcaa 2340
tactgtttct ctccacctga atttccaaag gtgtggcgga ggccattctg aatgacattt 2400
gagatccctt ccatgctgaa gcgtgtgcgg ggcataatgac ttctctcatt cttcccatc 2460
tgagagctgc catttttttag tttcttttct tttttgtctg tttctttgtg ctctttctgt 2520
ttgttttgca cttcaataag aacagaaata aagctgtttt tcaacttctt ttcaaactcc 2580
agttcatctc gtaaaagcaa ctgctgcacc agctcctcag agtactcc 2628
```

<210> 81

<211> 4438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350230.2

<400> 81

```
aaggagtctg ctggagccct ttcttcagac cgggcccggg cttcgcgccc ggactcctgg 60
cgccagcgct aggcgcactc accgctctga cgggtgcaga cgcgggagtt gtcccagact 120
```

gtggagtgcc	gggcacggcc	ccagccccc	ttcccttccc	tgaccccttc	ttgccatcgc	180
cccagacatg	gggaacgcgg	cgaccgccaa	gaaaggcagc	gaggtggaga	gcgtgaaaga	240
gtttctagcc	aaagccaaag	aagacttttt	gaaaaaatgg	gagaatccaa	ctcagaataa	300
tgccggactt	gaagattttg	aaaggaaaaa	aacccttgga	acaggttcat	ttggaagagt	360
catgttggtg	aaacacaaag	ccactgaaca	gtattatgcc	atgaagatct	tagataagca	420
gaaggttggt	aaactgaagc	aaatagagca	tactttgaat	gagaaaagaa	tattacaggc	480
agtgaatttt	cctttccttg	ttcgactgga	gtatgctttt	aaggataatt	ctaatttata	540
catggttatg	gaatatgtcc	ctgggggtga	aatgttttca	catctaagaa	gaattggaag	600
gttcagttag	ccccatgcac	ggttctatgc	agctcagata	gtgctaacat	tcgagtacct	660
ccattcacta	gacctcatct	acagagatct	aaaacctgaa	aatctcttaa	ttgaccatca	720
aggctatatc	caggtcacag	actttggggt	tgccaaaaga	gttaaaggca	gaacttggac	780
attatgtgga	atttggcctc	atttggctcc	agaaataatt	ctcagcaagg	gctacaataa	840
ggcagtgga	tggtgggcat	taggagtgtc	aatctatgaa	atggcagctg	gctatcccc	900
attctttgca	gaccaaccaa	ttcagattta	tgaagagatt	gtttctggaa	aggtccgatt	960
cccatccac	ttcagttcag	atctcaagga	ccttctacgg	aacctgctgc	aggtggattt	1020
gaccaagaga	tttggaatc	taaagaatgg	tgtcagtgat	ataaaaactc	acaagtgggt	1080
tgccacgaca	gattggattg	ctatttacca	gaggaagggt	gaagctccat	tcataccaaa	1140
gtttagaggc	tctggagata	ccagcaactt	tgtactat	gaagaagaag	atatccgtgt	1200
ctctataaca	gaaaaatgtg	caaaaagaatt	tggtgaattt	taaagaggaa	caagatgaca	1260
tctgagctca	cactcagtgt	ttgcactctg	ttgagagata	aggtagagct	gagaccgtcc	1320
ttgttgaagc	agttacctag	ttccttcatt	ccaacgactg	agttaggtct	ttattgccat	1380
catcccgtgt	gcgcactctg	catccaccta	tgtacaagg	caccgctaag	caagcattgt	1440
ctgtgccata	acacagtact	agaccacttt	cttacttctc	tttgggttgt	ctttctcctc	1500
tcctacatcc	atttcttctc	tttccaattt	cattggtttt	ctctaaacag	tgctccattt	1560
tattttgttg	gtgtttcaga	tgggcagtgt	tatggctacg	tgatatttga	aggggaaggat	1620
aagtgttgct	ttcagtagtt	attgccaata	ttgttggttg	tcaatggctt	gaagataaac	1680
tttctaataa	ttattatttc	tttgagttag	tcagacttgg	ttttgccaaa	actcttggtg	1740
atttttgaag	atagactgtc	ttatcaccaa	ggaaatttat	acaaattaag	actaactttc	1800
ttggaattca	ctattctggc	aataaatttt	ggtagactaa	tacagtacag	ctagaccag	1860
aaatttgga	ggctgtagat	cagaggttct	agttcccttt	ccctcctttt	atatectct	1920
ctccttgagt	aatgaagtga	ccagcctgtg	tagtgtgaca	aacgtgtctc	attcagcagg	1980
aaaaactaat	gatattggatc	atcacccaga	ttctctcact	tggtaccagc	atttctgtag	2040
gtatttagaga	agagttctaa	gttttctaaa	ccttaactgt	tccttaagga	ttttagccag	2100
tatttttaata	gaacatgatt	aatgaaagtg	acaaatttta	aattttctct	aatagtcctc	2160
atcataaact	ttttaaagga	aaataagcaa	actaaaaaga	acattggttt	agataaatac	2220
ttacttttg	caaagtcaaa	aatggcttga	tttttggaag	caatatagag	gtattcata	2280
ttaaatgagg	gtttacattt	gttttgtttt	gtaaccgtta	aaaagaagtt	gtttccagct	2340
aattattgtg	gtgtactata	tttgtgagcc	tagggtaggg	gcactgctgc	aacttctgct	2400
ttcatcccat	gcctcatcaa	tgaggaaagg	gaacaaagtg	tataaaactg	ccacaattgt	2460
atttttaattt	tgaggtatga	tattttcaga	tatttcataa	tttctaacct	ctgttctctc	2520
agtaaacaga	atgtctgatc	gatcatgcag	atacaatgtt	ggtattttgag	aggttagttt	2580
ttttcttaca	cttttttttg	ccaactgact	taacaacatt	gctgtcaggt	ggaaatttca	2640
agcacttttg	catttttttg	tcagtgtttg	ttgagaatcc	atggcttaac	ccactgtttt	2700
tgctattttt	ttcttttgctt	ttaattttcc	ccatctgatt	ttatctctgc	gtttcagtga	2760
cctaccttaa	aacaacacac	gagaagagtt	aaactggggt	catttttaatg	atcaattttac	2820
ctgcataata	aattttatttt	taatcaagct	gatcttaattg	tatataatca	ttctattttgc	2880
tttattatcg	gtgcaggtag	gtcattaaca	ccacttcttt	tcactctgtac	cacaccctgg	2940
tgaaaccttt	gaagacataa	aaaaaacctg	cttgagatgt	tctttctacc	aatctatatg	3000
tctttcggtt	atcaagtgtt	tctgcatggt	aatgtcatgt	aaatgctgat	attgatttca	3060
ctggtccatc	tatattttaa	acgtgcaaga	aaaaaataaa	atactctgct	ctagcaagtt	3120
ttgtgtaaca	aaggcatatc	gtcatgttaa	taaattttaa	acatcattcg	tataaaatat	3180
tttaatttttc	ttgtattttca	tttagaccca	agaacatgct	gaccaatgtg	ttctatatgt	3240
aaactacaaa	ttctatggta	gctttgttgt	atattattgt	aaaattattt	taataagtca	3300
tggggatgac	aatttgatta	ttacaattta	gttttcagta	atcaaaaaga	tttctatgaa	3360
ttctaaaaaa	tatttttttc	tatgaaatta	ctagtgccta	gctgtagaat	ctaccttagg	3420
tagatgatcc	ctagacatac	gttggttttg	agggctattc	agccattcca	ttttactctc	3480
tatttaaagg	ccgtgagcaa	gcttgatcat	agcaaatatg	tcaagggagt	caatttctga	3540
ccaatcaagt	acactaaatt	agaatatttt	taaagtatgt	aacattccca	gtttcagcca	3600
caatttagcc	aagaataaga	taaaaacttg	aataagaagt	aagtagcata	aatcagttat	3660
taacctaaaa	ttacatatatt	gaaacagaag	atattatgtt	atgctcagta	aataattaag	3720
agatggcatt	gtgtaagaag	gagccctaga	ctgaaagtca	agacatctga	atttcaggct	3780

PA-0024 US

ggaaaaactat	cagtatgata	tcagcctcag	ttctcttgtc	tgtaaaatgg	aagaactgga	3840
ttaggcagtt	tgtaagattc	ctcctaactt	tcacagtcga	tgacaagatt	gtctttttat	3900
ctgatatttt	gaagggtata	ttgctttgaa	gtaagtctca	ataaggcaat	atatttttagg	3960
gcattctttct	tcttatctct	gacagtgttc	ttaaaattat	ttgaatatca	taagagcctt	4020
ggtgtctgtc	ctaattcctt	tctcactcac	cgatgctgaa	taccagttg	aatcaaactg	4080
tcaacctacc	aaaaacgata	ttgtggctta	tgggtattgc	tgtctcattc	ttgggtatatt	4140
cttgtgttaa	ctgcccattg	gcctgaaaat	actcattgta	agcctgaaaa	aaaaaatctt	4200
tcccactgtt	ttttctgctt	gttgtaagaa	tcaaagtaa	taatgtatgt	gaaagcacct	4260
tgtaaaactgt	aacctatcaa	tgtaaaatgt	taagggtgtg	tggtatttca	ttaattactt	4320
ctttgttttag	aatggaattt	cctatgcact	actgtagcta	ggaaatgctg	aaaacaactg	4380
tgtttttttaa	ttaatcaata	actgcaaaat	taaagtacct	tcaatggata	agacaaaa	4438

<210> 82

<211> 1781

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 221712.2

<400> 82

tggcagagca	gctgcagaag	tgcagggatc	ggaaagggtac	cagggcagct	gctttccgct	60
gcctccggtc	cgggcagctg	cagaaacagc	agggggagga	gcaacagctg	ccaaattcgc	120
caactagagg	agggagaggc	ggagcttggg	tccctgtaga	agccagaggc	gcagtctgga	180
ctgtagtttc	ccgggagaga	cgaaagcagg	aacgagagcg	gagcggagca	cagtcgcgcg	240
agcacaagct	ccagcatccc	gtcaggggtt	gcaggtgtgt	gggaggcttg	aaactgttac	300
aatatggctt	tccttggaact	cttctctttg	ctggttctgc	aaagtattggc	tacaggggcc	360
actttccctg	aggaagccat	tgctgacttg	tcagtgaata	tgtataatcg	tcttagagcc	420
actgggtgaag	atgaaaatat	tctcttctct	ccattgagta	ttgctcttgc	aatgggaatg	480
atggaacttg	gggcccaagg	atctaccag	aaagaaatcc	gccactcaat	gggatatgac	540
agcctaaaaa	atgggtgaaga	attttctttc	ttgaaggagt	tttcaaaca	ggtaactgct	600
aaagagagcc	aatatgtgat	gaaaattgcc	aattccttgt	ttgtgcaaaa	tggatttcac	660
gtcaatgagg	agtttttgca	aatgatgaaa	aaatatttta	atgcagcagt	aaatcatgtg	720
gacttcagtc	aaaatgtagc	cgtggccaac	tacatcaata	agtgggtgga	gaataacaca	780
aacaatctgg	tgaagatttt	ggatccccca	agggattttg	atgctgccac	ttatctggcc	840
ctcattaatg	ctgtctattt	caagggggaa	tggaagtgcg	agtttaggcc	tgaaaatact	900
agaacctttt	ctttcactaa	agatgatgaa	agtgaagtcc	aaattccaat	gatgtatcag	960
caaggagaat	tttattatgg	ggaatttagt	gatggctcca	atgaagctgg	tggtatctac	1020
caagtcctag	aaataccata	tgaaggagat	gaaataagca	tgatgctggg	gctgtccaga	1080
caggaagttc	ctcttgctac	tctggagcca	ttagtcaaag	cacagctggg	tgaagaatgg	1140
gcaaactctg	tgaagaagca	aaaagtagaa	gtataacctg	ccaggttcac	agtggaaacag	1200
gaaattgatt	taaaagatgt	tttgaaggct	cttggaaata	ctgaaatttt	catcaaagat	1260
gcaaatttga	caggcctctc	tgataataag	gagatttttc	tttccaaagc	aattcacaag	1320
tccttcctag	aggttaatga	agaaggctca	gaagctgctg	ctgtctcagg	aatgattgca	1380
attagtagga	tggctgtgct	gtatcctcaa	gttattgtcg	accatccatt	tttctttctt	1440
atcagaaaca	ggagaactgg	tacaattcta	ttcatgggac	gagtcatgca	tcctgaaaca	1500
atgaacacaa	gtggacatga	tttcgaagaa	ctttaagtta	ctttatttga	ataacaagga	1560
aaacagtaac	taagcacatt	atgtttgcaa	ctggatatata	tttaggattt	gtgtttttaca	1620
gtatatctta	agataatatt	taaaatagtt	ccagataaaa	acaatatatg	taaattataa	1680
gtaacttgct	aaggaatgtt	atcagtatta	agctaattgg	cctgttatgt	cattgtgttt	1740
gtgtgtgtgt	gtttaaaata	aaagtaccta	ttgaacatgt	g		1781

<210> 83

<211> 4132

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 251826.7

<400> 83

```

cgggcgggcg agggcggggg ctttacggac gcaagcacgt cgaagcgctg ctcttgaggc 60
cgcgaggagg gcgggtttgg ctgcgggtgg ttctgtggcg gttgctgtgg cggagtttgg 120
aggttggaga gaaatccagg tactcactag actggtacct tctgccacca tgggggagct 180
tttccggagt gaagaaatga cactggccca gctttttcta cagtacagagg ctgcttattg 240
ttgtgtcagt gaattaggag aacttgga aa gttcagttt cgtgacttaa atccagatgt 300
gaatgttttc caacggaaat ttgtgaatga agttagaaga tgtgaagaaa tggatcgaaa 360
gcttcgattt gttgagaaag agataagaaa agctaacatt ccgattatgg acaccggtga 420
aaacccagag gttcccttcc cccgggacat gattgactta gaggccaatt ttgagaagat 480
tgaaaatgaa ctgaaggaaa tcaacacaaa ccaggaagct ctgaagagaa acttcctgga 540
actgaccgaa ttaaaattta tacttcgcaa aactcagcaa ttttttgatg agatggcgga 600
tccagacttg ttggaagagt cctcatccct ctggagcca agtgagatgg gaagaggcac 660
tcctttaaga cttggcttcg tggctggtgt cattaacagg gagcgcaccc ctacttttga 720
gcgcagtctt tggcggttat gccggggaaa tgtgttctcg cgacaggctg aaatcgagaa 780
ccccctggag gatcctgtga ctggcgacta cgtgcacaag tctgtgttta tcatcttctt 840
ccaaggcgat cagctgaaaa acagagtcaa gaaaatctgt gaagggttcc gagcctcact 900
ccatccctgt cctgagacac cacaggagag gaaggaaatg gcttctggag tgaataccag 960
gattgatgat tccaaatgg ttctgaatca aacggaggat caccgccaga gggttctgca 1020
ggcagctgct aagaacatcc gtgtctggtt catcaaagtg cggaagatga aggccatcta 1080
tcacaccctg aacctgtgca acatagatgt gactcagaaa tgcttgattg cagaggtctg 1140
gtgccctgtc accgaccttg actccatcca gtttgcactc agaaggggca cggaacacag 1200
tggttccact gtaccttcca ttttgaacag gatgcagaca aaccagactc cccaaccta 1260
taacaaaacc aacaagtta cctatggctt tcagaacata gtagatgctt atggaattgg 1320
aacttaccca gagataaatc cagctccgta tactattatc acgttccctt tctattttgc 1380
tgtgatgttt ggagacttcg gtcattggcat tttaatgacc ctttttgctg tgtggatgg 1440
actgaggggag agccggatcc tttcccgaaa gaatgagaat gagatgttta gcactgtgtt 1500
cagtggtcga tacattattt tattgatggg tgtgttctcc atgtacactg gcctcatcta 1560
caatgattgc ttttccaagt ctcttaatat ctttgggtca tcttgaggatg tacggccgat 1620
gtttacttat aattggactg aagagacgct tcgggggaac cctgttctac agctgaaccc 1680
agccctccct ggagtgtttg gtggaccata cctttttggc attgatccaa tttggaacat 1740
tgctaccaat aaactgacgt tcttgaactc ctttaagatg aagatgtctg ttatccttgg 1800
tatcatccat atgctgtttg gagtcagcct gagtctgttc aaccatatct atttcaagaa 1860
gcccctgaat atctactttg gatttattcc tgaaataatc ttcatgacct ctttgtttgg 1920
ctatttggtt atccttattt tttacaagtg gacggcctat gatgctcata cctctgagaa 1980
tgcaccaagc cttctgatcc atttcataaa catgttcttc ttttctacc cagagtctgg 2040
ttattcaatg ttgtattctg gacagaaagg aattcagtg ttcctggtag tgggtgcact 2100
actgtgtgta ccttgatgc tctgttttaa accattggtc cttcgccgtc agtattttgag 2160
gagaaagcat ttgggaactc tcaactttgg tgggatcagg gtgggcaacg gaccgacaga 2220
ggaggatgct gagattatc agcatgacca gctctccacc cactcagagg acgcagacga 2280
gtttgacttt ggggacacca tgggccacca ggccatccac accatcgagt actgcctggg 2340
ctgcactctc aacactgcct cctacttgcg gctctggggc ctcagcctcg ctcatgcgca 2400
gctgtctgag gtgctttgga ccatggtgat ccacatcggc ctgagcgtga agagcttggc 2460
gggagggttt gtgctgttct tcttcttacc cctcttggcc accctgaccg tggccatcct 2520
cctgatcatg gagggcctct cggcctttct ccacgcactg cgcttacact gggttgagtt 2580
ccagaataaa ttctacagcg ggaccgggtt caagttctta cccttctcct tcgagcatat 2640
tcgggaaggg aagtttgaag agtgagtccc tgtgagggcc gtgtgcccc a tgctaccctc 2700
cccgcctccc tccacagtga tcagctgtgc ctctctgcct gttggttgtg atctgtgggc 2760
accagctcat tcgtgtcacc ctgtctgtga gtcatttaga tagaatagtc ctcttgggt 2820
ctcccaccac cctagctttt gtgtgtagt tagtgatttt ctggctgtca ctcatactca 2880
ctgggcacca gccttgccct cttagcctcc atccatccag acagcccttc ccacctctg 2940
gtggtgagcc agtctgcatt cccacgccat cccaaagccc tttcatcttc cccgtgcatt 3000
gtagatggaa ggagcaccca tgccattcac atctagactt tgagttccct gcatctgcca 3060
ccgtagtttc tagcaggagt agtgggggga gtaatacaga ttcttccta gaaggggaca 3120
ctggttaacat gtcccactct tggattagca ggggtgggtc caggaagatg atatttgcgt 3180
cttttgccca cccccctgg cattcagctg gacccaacta ggccatcatg agtggcttct 3240
ccctgtcacc cccaggggtc ataggatata tacaccgctt ttctgacccc accctgcact 3300
cccatccttt cctctctccc cgttcatgcc ctgcactaca tagcacagcc gggatgcttg 3360
gaacagaggc cttgggctgc tccgcagtgc acagggcttc cctctctcgg ggttgcttc 3420
ttcccaggcc ttgcatgggc cctgcccaca agcacaccct caggccgagg gtgcagactg 3480
atgctcttcc ctgatggaga ccctgagatc ttccccacc ccaatcatga tgtcttcagt 3540
gtgggactgg ggtcctcttg gttctgcctg cagcctgcct ggctccgcc ctagtgcgcc 3600

```

PA-0024 US

ctcctcacca	cactggcccc	aggtctcagg	aggggtgtcc	tgggcagggg	aggtcagtgt	3660
cactgatggg	ttgctgtttg	gaagccattg	gcagggctgc	cgtgcatgtg	gctgtgaggg	3720
ctgcacagtc	ctgccaaggg	gcttcctcct	tgtcaccocg	aaccttgtaa	tcgtgtgctg	3780
gcgtggcagc	cctggctaag	ttaatcccca	ccgctttcag	tggtagaaa	aattccctga	3840
gtggggcagg	ctgggtgccc	cctcctaccc	tggcttttct	gagtgaagctg	cctggagccc	3900
tcacccccctc	tcccaggtcg	ggctggccct	gggcggggcc	actgtgtgct	ggcccactgt	3960
gacctgaccc	gaccttgtgc	agccccctg	ccctgggtgc	ctgggttttc	gtgatgatct	4020
ttgctctgtt	tccagtgggg	tttgaagcag	agttcaggga	accctgcccc	aggtcctcct	4080
gttcagacat	tcctatgttg	aataaagtat	gtttgacttc	cccggaaaaa	aa	4132

<210> 84

<211> 2931

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246704.2

<400> 84

cggtctctctg	cgcgcgaaacg	cgagtcctccg	gcgggtgggg	cggggggtcca	ctgagaccgc	60
taccggcccc	tcggcgctga	cgggaccgcg	cggggcgcac	ccgctgaagg	cagccccggg	120
gccccggggc	cggactttgg	cctgcgcacg	ggcgcggggc	agcgcacgct	gaggaagcga	180
gaggtgctgc	cctccccccg	gagttggaag	cgcgttaccc	gggtccaaaa	tgcccaagaa	240
gaagccgacg	cccatccagc	tgaacccggc	ccccgacggc	tctgcagtta	acgggaccag	300
ctctgcggag	accaacttgg	aggccttgca	gaagaagctg	gaggagctag	agcttgatga	360
gcagcagcga	aagcgccttg	aggcctttct	taccagaag	cagaaggtgg	gagaactgaa	420
ggatgacgac	tttgagaaga	tcagtgaagc	gggggctggc	aatggcgggtg	tgggtgtcaa	480
ggtctcccac	aagccttctg	gcctggtcac	ggccagaaa	ctaattcatc	tggagatcaa	540
accgcgaatc	cggaaccaga	tcataaggga	cgtgcagggt	ctgcatgagt	gcaactctcc	600
gtacatctgtg	ggcttctatg	gtgcgttcta	cagcgatggc	gagatcagta	tctgcatgga	660
gcacatggat	ggaggtttct	tggatcaagt	cctgaagaaa	gctggaagaa	ttcctgaaca	720
aatttttagga	aaagttagca	ttgctgtaat	aaaaggcctg	acatatctga	gggagaagca	780
caagatcatg	cacagagatg	tcaagccctc	caacatccta	gtcaactccc	gtggggagat	840
caagctctgt	gactttgggg	tcagcgggca	gctcatcgac	tccatggggc	aactccttcg	900
tgggcacaag	gtcctacatg	tcgccagaaa	gactccaggg	gactcattac	tctgtgcagt	960
cagacatctg	gagcatggga	ctgtctctgg	tagagatggc	ggttgggagg	tatcccatcc	1020
ctcctccaga	tgccaaggag	ctggagctga	tgtttgggtg	ccagggtggaa	ggagatgcgg	1080
ctgagacccc	accagggcca	aggacccccg	ggaggccccct	tagctcatac	ggaatggaca	1140
gccgacctcc	catggcaatt	tttgagttgt	tggattacat	agtcaacgag	cctcctccaa	1200
aactgcccag	tggagtgttc	agtctggaat	ttcaagattt	tgtgaataaa	tgcttaataa	1260
aaaacccccg	agagagagca	gatttgaagc	aactcatggg	tcattgctttt	atcaagagat	1320
ctgatgctga	gcttgcagg	tttgacgggt	ggctctgctc	caccatcggc	cttaacagac	1380
ccagcacacc	aacccatgct	gctggcgtct	aagtgttttg	gaagcaacaa	agagcgagtc	1440
ccctgccccg	tggtttgcca	tgtcgctttt	gggcctcctt	cccattgcctg	tctctgttca	1500
gatgtgcatt	tcacctgtga	caaaggatga	agaacacagc	atgtgccaa	attctactct	1560
tgtcattttt	aatattactg	tctttattct	tattactatt	attgttcccc	taagtggatt	1620
ggctttgtgc	ttggggctat	ttgtgtgtat	gctgatgate	aaaacctgtg	ccaggctgaa	1680
ttacagtga	attttggtga	atgtgggtag	tcattcttaa	aattgcactg	ctgttcctgc	1740
tccatgactg	gctgtctgcc	tgtattttcg	ggattctttg	acgacatttg	gtgggtactt	1800
attcttgctg	ggcatacttt	ctctctagga	gggagccttg	tgagatcctt	cacaggcagt	1860
gcatgtgaag	catgctttgc	tgctatgaaa	atgagcatca	gagagtgtac	atcatgttat	1920
tttattatta	ttatttgctt	ttcatgtaga	actcagcagt	tgacatccaa	atctagccag	1980
agcccttcac	tgccatgata	gctggggcctt	caccagtctg	tctactgtgg	tgatctgtag	2040
actttgtggt	gtattttctat	atttattttc	aataactgtg	gtgggatact	tagtggtatg	2100
tctctttaag	ttttgattaa	tgtttcttaa	atggaattat	tttgaatgtc	acaaattgat	2160
caagatatta	aaatgtcgga	tttatctttc	cccatatcca	agtaccaatg	ctgttgtaaa	2220
caacgtgtat	agtgcctaaa	attgtatgaa	aatcctttta	accattttta	cctagatgtt	2280
taacaaatct	aatctcttat	tctaataaat	atactatgaa	ataaaaaaaa	aaggatgaaa	2340
gctacttttg	cttttgtggg	aagcttttca	gtttcttttag	tacacaagaa	atactggttt	2400
agccaagctga	cactggtgag	ggggaaaggt	gaagatgagg	aggaggctgg	aaggcagaaa	2460

PA-0024 US

```
caggacaccg agttcagtgc tttggactaa tggggcttcc tgtaatttca atctctggac 2520
tcagtccagc tcttctcacc caacaccctt atctgtgact cttccaacca ctttcttgt 2580
gggacctgtg aatagatcct gtatatctct ttgatctctt ttatacaagg gaaaagcagc 2640
tgatggggga ctgggagcaa atctgagaaa aatgacaaaa catttcttat ctcacagaac 2700
atctctcatt ttccatatac caatagttga gctgagggcc tgcctgcact tttaggctgt 2760
catgctcata ggagggcctt gctggtggcc aacttgccta cctggtgtgg gagctttctg 2820
cacaacatag gacagtctgt ctcttttgcg acattaagca atggtttccc ttctttcacc 2880
acttacactt aaccacacct tcctagaaag gaggaatgtg cctggcgctg g 2931
```

<210> 85

<211> 1544

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 411180.6

<400> 85

```
ttggaaagac ggtgaatgga aaggggatgg ctggtggtct tgggtgtgat gtgtgttatt 60
ggttttaga ggagaagcag gagaaacaag gtattctgcc tgagagagct gaagaggcaa 120
agctaaaggc caaataccca agcctaggac aaaagcctgg aggctccgac ttcctcatga 180
agagactcca gaaagggcaa aagtactttg actcaggaga ctacaacatg gccaaagcca 240
agatgaagaa taagcagctg ccaagtgcag gaccagacaa gaacctggtg actggtgatc 300
acatccccac cccacaggat ctgccccaga gaaagtctc gctcgtcacc agcaagcttg 360
cggttgccca agttgaatga tgctgcccgg ggtcttgcca gatcctgaga cgcttccct 420
ccctgcccc cccgggtcct gtgctggctc ctgccccttc ctgcttttgc agccaggggt 480
caggaggtgg ctcggtgtg ggctggagag gcagaagccc tttcctgttg gtgtcccagc 540
acatggagcc ccttgggctg agcaccaaga ccttgaacct tttttgtttt accttttttc 600
caaataacag ttgggagaaa tatcaatgaa attctggggg tgggggtggg gttgaaaggg 660
tgggggtggga gatatggagg agtatgaatt agggcttggg gttggtaaaa acattcctga 720
ctatccttct taaccacgtg gctgatgtgg ggtaggtatg aggggaagga agtggagtag 780
cctaataaaa aggggttcta gttgagctct gtagataaat gccttgtttc agtgtggttg 840
gagacctggt gtcagataaa agaaactcca tccgcacaga cagatgcaaa cagctcctct 900
agttctgcag agctagttaga gaactcaaca ttaatcattt taaaaagtac tgtccttgaa 960
atagatttgc tgtgggaaga agggcagtga gtgtgggaga aaggagccgt gagcgtgggg 1020
aacccacag agcccaaagg actttttcag tattcgaaat aaacaaaaca aaaacccatg 1080
aaaaaaccca acccagaaat attctgaagc agttggtgtg ttttattggg gtttgggagg 1140
gggaagaaaa caatactgaa gacattgtta atgtgagatg cggctgagtt cccaataacc 1200
atcacttagg aaaggagca ggaatgttgg cataaacctt gccatccct ttgtttctgt 1260
aaccaatgta gaaggtgcat caacctcagt ttgtggctca caaaatgagg catttaagat 1320
atttgatcta aatggtttct tgacacctaa gcctagtcca ggtttagcag aaaaggaggc 1380
ccagtctcct ttccctctg tcttccatc cttttcaagt tcccatgttt gtgagggaga 1440
aatgtgacaa accaaaagaa atatattatt tctttgtaat aagccaaaag aaactcaagt 1500
ctttctgctg gtggccagca ggaggcagag tgatttcttt cctc 1544
```

<210> 86

<211> 887

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233576.23

<220>

<221> unsure

<222> 610

<223> a, t, c, g, or other

<400> 86

PA-0024 US

```
cacagtcggc gctccttccc gctcccttca cacaccggcc tcaggcccgcc accggcagta 60
gaagatgggtg aaactttttg agacacccta tggccttctt gtcaaaacct tcactggagc 120
tcaagaaaag catttctgtt gtgttatatt cagtgcagat gatgtctgtg taacaacata 180
atggttattc accttttttt gattttgatt tttgctgtgt tatcaaaaac ttgaatactg 240
tgagaagaag tgaattttca gttgacgaat cagcatcttg ttcccatggt gataacacta 300
attgaatata tctatgaggg catgtattag ttaatggaaa aaaaaatata acactaacia 360
tacatagctg caatgtgtac aatggctgat ttaattaaat aaaatgtaca agtggttaaat 420
gtggcaacgg tgatttgttc ttctttatca tgaatctgtg atttcaggag aataagaggt 480
tttaaaaagt tgagctagac ttgaaaccaa cagaaagaca caaattgctt tttttcttat 540
ggtttttatt tagtcgctga atatgctata tgccctggcac tggattaagc actgggataa 600
atagattttt cctctgcccc caagaaattc ttattgttct tgttatgcaa aagaagaaaa 660
tgaggatttt tgtttttgat cactactaaa tgaaagaaaa taggaatttg gggacttgca 720
ggggatgaga aagggtagt gggattggca gcacagcaag actggtttgg ttctctccca 780
tgaggccatg gctgtcacta aatactttct gtctttggga acagcagttg gctctggagt 840
tttctttctg tcttagagcc tgagaattta aaattaaatg gatatat 887
```

<210> 87

<211> 1562

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1098781.3

<400> 87

```
cgccggcgctc cgcgctcccc cgccgagctg ctcgggctcc ctgagccccc agatctgacc 60
ccttcccttc ggcaacctga acgactcccc ccttccacgg aagggaccga gcccgtgcca 120
aacaggctga gcgatttggg agtgaggagc catcctaccg ctttcccca cctggaaaca 180
gcaaagcgca aggcctctga gtcagttagg tctctgccac ccacgggcaa aggatgctct 240
cctccatcct ccttccctcc tccaccgaaa tcggagagcc gcgggcctga tccaaagagg 300
catcccttc tcgttcattc ccagaggcc tcaatacaaa ccccaggagt tggccctct 360
tcttttgcta caaattcttg ccttgcaaag gggagaggtg gtttggtgc cccctactgc 420
ctatatcgac ttgcgccggc agaagctaga tcccaagatt gctgtggctg cgcagaactg 480
ctacaaagt actaatgggg cttttactgg ggagatcagc cctggcatga tcaaagactg 540
cggagccacg tgggtggtcc tggggcactc agagagaagg catgtctttg gggagtcaga 600
tgagctgatt gggcagaaag tggcccatgc tctggcagag ggactcggag taatcgctg 660
cattggggag aagctagatg aaagggaagc tgggcatcac tgagaagggt gttttcgagc 720
agacaaagg catcgagat aacgtgaagg actggagcaa ggtcgtcctg ggcctatgag 780
cctgtgtggg ccattggtac tggcaagact gcaacacccc aacaggccca ggaagtacac 840
gagaagctcc gaggatggct gaagtccaac gtctctgatg cgggtggctca gagcaccctg 900
atcatttatg gaggtctgt gactggggca acctgcaagg agctggccag ccagcctgat 960
gtggatggct tccttgtggg tgggtgctcc ctcaagccc aattcgtgga catcatcaat 1020
gccaacaat gagccccatc catcttccct acccttctcg ccaagccagg gactaagcag 1080
cccagaagcc cagtaactgc ctttccctg catatgcttc tgatgggtgc atctgctcct 1140
tcctgtggcc tcatccaaac tgtatcttcc tttactgttt atatcttcac cctgtaattg 1200
ttgggaccag gccaatccct tctccactta ctataatgg tggaaactaaa cgtcaccaag 1260
gtggcttctc ctggctgag agatggaagg cgtgggtgga tttgctcctg ggttccctag 1320
gcccagtagt gggcagaaga gaaaccatcc tctcccttct tacaccgtga ggccaagatc 1380
ccctcagaag gcaggagtgc tgccctctcc catggtgccc gtgcctctgt gctgtgtatg 1440
tgaaccaccc atgtgaggga ataaacctgg cactaggtct tgtggtttgt ctgccttcac 1500
tggacttgcc cagataatct tcctttttga ggcagctata taaatgatca tttgtgcaag 1560
aa 1562
```

<210> 88

<211> 2475

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PA-0024 US

<223> Incyte ID No: 255828.26

<220>

<221> unsure

<222> 1001, 1011

<223> a, t, c, g, or other

<400> 88

```
atcacctgca tcctcgagga cagaccttgt gaagtcagag ctgctacaca ttgaatctca 60
agtcgagctt ctgagattcg atgattcagg aagaaaggat tctgaggttt tgaagcaaaa 120
tgcagtgaac agcaaccaat ccaatgttgt aattgaagac tttgagtcct caccgatctc 180
ttcgtctttt cagcgtagcc cgagtcggtc agcgccggag gacctcagca gccatgtcga 240
agcccatag tgaagccggg actgccttca ttcagaccca gcagctgcac gcagccatgg 300
ctgacacatt cctggagcac atgtgccgcc tggacattga ttcaccaccc atcacagccc 360
ggaacactgg catcatctgt accattgggc ccagcttccc gatcagtggg gacgttgaag 420
gagatgataa gtctggaatg aatgtggctc gtctgaattc tctcatggac tcatgagtac 480
catgcggaga ccatcaagaa tgtgcgcaca gccacggaaa gctttgcttc tgaccccatc 540
ctctaccggc ccgttgctgt ggctctagac actaaaggac ctgagatccg aactgggctc 600
atcaaggcca gcggcactgc agaggtggag ctgaagaagg gagccactct caaaatcacg 660
ctggataacg cctacatgga aaagtgtgac gagaacatcc tgtggctgga ctacaagaac 720
atctgcaagg tgggtggaag gggcagcaag atctacgtgg atgatgggct tatttctctc 780
caggtgaagc agaaagggtgc cgacttcctg gtgacggagg tggaaaatgg tggctccttg 840
ggcagcaaga aggggtgtgaa ccttcctggg gctgctgtgg acttgectgc tgtgtcggag 900
aaggacatcc caggatctga aagtttgggg gtgcagcagg atgttgatat ggtgtttggc 960
gtcattccat ccgcgaaagg catctggatg tcccatggaa ngtttaggaa nggtcctggg 1020
gagagaaggg aaaagaaaca tccaagatta tccagcaaaa tcgagaatca tgaggggggt 1080
cggaggtttg atgaaatcct ggaggccagt gatgggatca tgggtggctc tggatgata 1140
ggcattgaga ttcctgcaga gaaggtcttc ttgtcagaa gatgatgatt ggacggtgca 1200
acccgagact ggggaagcctg tcatctgtgc tactccagat gctggagagc atcgatcaag 1260
aagccccgcc ccactgggc tgaaggcagt gatgtggcca atgcagtcct ggatggagcc 1320
gactgcatca tgctgtctgg agaaacagcc aaaggggact atcctctgga ggtgtgccc 1380
atgcagcacc tgattgcccg tgaggcagag gctgccatct accacttgca attatttgag 1440
gaactccgcc gcctggcgcc cattaccagc gacccacag aagccaccgc cgtgggtgcc 1500
gtggagycct ccttcaagtg ctgcagtggg gccataatcg tctcaccaa gtctggcagg 1560
tctgtctacc aggtggccag ataccgcccc cgtgccccca tcattgctgt gaccgggaat 1620
cccagacag ctgctcaggc ccacctgtac cgtggcatct tccctgtgct gtgcaaggac 1680
ccagtccagg aggcctgggc tgaggacgtg gacctccggg tgaactttgc catgaatggt 1740
ggcaaggccc gaggtctctt caagaaggga gatgtggtca ttgtgctgac cggatggcgc 1800
cctggctccg gcttcaccaa caccatgcgt gttgttcttg tgccgtgatg gacccagag 1860
ccctcctcc agccctgtc ccacccctt cccccagccc atccattagg ccagcaacgc 1920
ttgtagaact cactctgggc tgtaacgtgg cactggtagg ttgggacacc agggagaag 1980
atcaacgcct cactgaaaca tggtgtgtt tgcagcctgc tctagtggga cagcccagag 2040
cctggctgcc catcatgtgg cccacccaa tcaagggaag aaggaggaat gctggactgg 2100
agccctctgg agccagatgg caagaggggtg acagcttctt ttctgtgtg tactctgtcc 2160
agttccttta gaaaaaatgg atgccagag gactcccaac cctggcttgg ggtcaagaaa 2220
cagccagcaa gagttagggg ccttagggca ctgggctgtt gttccattga agccgactct 2280
ggccctggcc cttacttgct tctctagctc tctagacctc tccagtttgc acctgtcccc 2340
accctccat cagctgtcct gcagcaaaaa ctccaccctc caccttccat ttccccccac 2400
tactgcagca cctccaggcc tgttgctata gagcctacct gtatgtcaat aaacaacagc 2460
tgaagcacca aaaaa 2475
```

<210> 89

<211> 2550

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233643.1

<220>

PA-0024 US

<221> unsure

<222> 16, 19, 40, 45, 50, 56, 70, 507-546

<223> a, t, c, g, or other

<400> 89

gaggctgttt	gaaganagna	gccaggggccc	ggctgcctgn	gggantcgtg	aggacnccgc	60
tgtcccaggn	gaacaaggtc	tgggaccagt	cttcagtata	aatctcagcc	agaaaaacca	120
actcctcatc	ttgatctgca	ggaaaacacc	aaacacacta	tggaactctg	ctgatgggga	180
cccaagcgcc	cacgtgctca	gccaccctct	ggctcagcgg	ggcccagacc	cacctcgga	240
cggacacccc	tgtctccagg	aggggcaggt	ggctgagggt	cttcggagct	gtcagcgccc	300
ggtgcctgcc	ctgggcacct	ccctgcagtc	atctctttgc	actttgttac	tctttcaaag	360
cattcacaaa	cttttgtacc	tagctctagc	ctgtaccagt	tagttcatca	aaggaaacca	420
accgggatgc	taactacaac	atgggttagaa	tcctaattag	ctactttaag	atcctaggat	480
tggttggttt	ttcttttttt	ttctcnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnttt	taatagattt	gaatagcgac	gtatttcctg	ttgtagtcac	ttttagctcg	600
accacatcat	caggctctttg	ccaccgaggg	atagtgtaga	acagtcccgg	tcagttggcc	660
aacctccccg	agccaagtag	gttcacacct	gttccctgtc	attctcatag	atggccctgc	720
tttccccagg	gtgacatcgt	agccaaatgt	ttactgtttt	cattgccttt	tatggccttg	780
acgacttccc	ctcccaccag	ctgagaatgt	atggaggtca	tcggggcctc	agctcgagg	840
cagtgcactt	gggccaaggg	acctcgagac	gctttccctc	ccccccccc	agcgtcatct	900
ccccagcctg	ctgttcccgc	tttccatata	gctttggcca	ggaaagcatg	caatagactt	960
gctcggagcc	cagcactcct	gggtctcggg	gtcggggagg	ggacgggggc	accacttccc	1020
ttgtctgtga	cggcgtgttg	ttccccactc	tgggatgggg	aagaggcccc	tcgggagttc	1080
tgcattggcag	ttcactgcac	gtgctgcccc	cttgggttgc	tctgccaatg	tattaatacc	1140
atcccatagc	tcttgccaaa	tcgagaccct	ctgacgactt	gccgactaac	tggccaccac	1200
aagctgcagt	ctgtagcact	gaacaaacaa	aaaacaaaac	gctcaagcct	tacgaccaga	1260
gaaggatttc	agcaaaccac	cacctcccac	tcagtgtccc	ctccaaactt	cacacttccc	1320
tgcctgcaga	ggatgactct	gttcacaccc	aatccagcgc	ggttctaccc	cacgaaactg	1380
tgactttcca	aatgagcctt	tccttagggc	tagacctaac	accaggaagt	ttgagaaagc	1440
agccgcagct	caactcttcc	agctccgcca	gggttgggaa	gtccttaggt	gcagtgcggc	1500
tcccactggg	tccgcgacc	ctcctattag	agtacgaaat	tcttggaac	tggtagagaa	1560
ccaacctaga	ggctttgcag	ttggcaagct	aaactcgcg	cttatttctg	cctttaatct	1620
cccacaaggc	atctgttget	ttgggtcctc	cacgactctt	aggcccgctt	caacaaccca	1680
ggcacctcct	aggtaggctc	aaaggtagac	cgtttccac	cgcagcaggt	gaacatgacc	1740
gtgttttcaa	ctgtgtccac	agttcagatc	cctttccaga	ttgcaacctg	gcctgcatcc	1800
cagctccttc	ctgctcgtgt	cttaacctaa	gtgctttctt	gtttgaaacg	cctacaaacc	1860
tccatgtggt	agctcctttg	gcaaatgtcc	tgtgtggcg	ttttatgtgt	tgcttgaggt	1920
ctgtggggtc	gtactccctc	ccctcccgtc	cccagggcag	atttgattga	atgtttgctg	1980
aagttttgtc	tcttggtcca	cagtattttg	aaaggctact	gaaaatgggt	ctttcagttc	2040
tggcatttca	tttaggatct	ccatgagaaa	tgggcttctt	gagccctgaa	aatgtatatt	2100
gtgtgtctca	tctgtgaact	gctttctgct	atatagaact	agctcaaaag	actgtacata	2160
tttacaagaa	actttatatt	cgtaaaaaaa	aaaagaggaa	attgaattgg	tttctacttt	2220
tttattgtaa	aagggtgcatt	tttcaacact	tacttttgg	ttcaatgggt	gtagttgtgg	2280
acagccatct	tcactggagg	gtggggagct	cgtgtgacc	accaagatgc	cagcaggata	2340
taccgtaaca	cgaaattgct	gtcaaaagct	tattagcatc	aatcaagatt	ctaggtctcc	2400
aaaagtacag	gctttttctt	cattaccttt	tttattcaga	acgaggaaga	gaacacaagg	2460
aatgattcaa	gatccacctt	gagaggaatg	aactttgttg	ttgaacaatt	agtgaataaa	2520
agcaatgatc	taaactaaaa	aaaaaaaaaa				2550

<210> 90

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1094632.1

<220>

<221> unsure

<222> 535

PA-0024 US

<223> a, t, c, g, or other

<400> 90

```
ctttcctctg aagataagga gaccatggaa aaagctgtag aagaaaagat tgaatgcctg 60
gaaagccacc aagatgctga cattgaagac ttcaaagcta agaagaagga actggaagaa 120
attgttcaac caattatcag caaactctat ggaagtgcag gccctcccc aactggtgaa 180
gaggatacag cagaaaaaga tgagttgtag acactgatct gctagtgtctg taatattgta 240
aatactggac tcaggaactt ttgttaggaa aaaattgaaa gaacttaagt ctggaatgta 300
attggaatct tcacctcaga gtggagttga aactgctata gcctaagcgg ctgtttactg 360
cttttcatta gcagttgtct acatgtcttt ggggtgggggg gagaaagaaga attggccatc 420
ttaaaaagcg ggtaaaaaac ctgggttagg gtgtgtgttc accttcaaaa tgttctattt 480
aacaactggg tcatgtgcat ctgggttagg aagttttttc taccataagc acacnaataa 540
atg
```

<210> 91

<211> 3268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 412068.12

<220>

<221> unsure

<222> 62, 115-180

<223> a, t, c, g, or other

<400> 91

```
gccccctccc tggggccctg gcaacccctg gcctcgcttg cccaatgaga acacggtttg 60
gnngcggggcg cggccaggta ccggagcgga agtggcgatc ggagcggaa gggannnnnn 120
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
actgcaggca ccgctgccgc cgcctgagta gtgggcttag gaaggaagag gtcctctcgc 240
tcggagcttc gctcggaagg gtctttgttc cctgcagccc tcccacggca gagtctccag 300
agatttgggc cgctacaaaa agtgcatttt gcccatctcg ctgtggatag agaagcagga 360
agagcactgg acttgagtc agggaatgac aatggataaa agtgagctgg tacagaaagc 420
caaaactcgt gagcaggctg agcgctatga tgatatggct gcagccatga aggcagtcac 480
agaacagggg catgaactct ccaacgaaga gagaaatctg ctctctgttg cctacaagaa 540
tgtggttagc gcccgccgct ctctctggcg tgcctctcc agcattgagc agaaaacaga 600
gaggaatgag aagaagcagc agatgggcaa agagtaccgt gagaagatag aggcagaact 660
gcaggacatc tgcaatgatg ttctggagct gttggacaaa tatcttattc ccaatgctac 720
acaaccagaa agtaagggtg tctacttgaa aatgaaagga gattatttta ggtatctttc 780
tgaagtggca tctgagaca acaaacaaac cactgtgtcg aactcccagc aggtctacca 840
ggaagcattt gaaattagta agaaagaaat gcagcctaca cacccaattc gtcttggtct 900
ggcactaaat ttctcagctt tttactatga gattctaaac tctctgaaa aggcctgtag 960
cctggcaaaa acggcatttg atgaagcaat tgctgaattg gatacgctga atgaagagtc 1020
ttataaagac agcactctga tcatgcagtt acttagggac aatctcactc tgtggacatc 1080
ggaaaaccag ggagacgaag gagacgctgg ggagggagag aactaatggt tctcgtgctt 1140
tgtgatctgt tcagtgtcac tctgtaccct caacatatat cccttggtcg ataaaaaaa 1200
aaaaaaaaaa aaaaagagaa tcgtacgtcg actttcgatt ttccacagcc tcagcctagg 1260
aaaaatggtt catgggataa acagctggta tttgtatcta aaactcagat tggtcacata 1320
aatgccacgg cattccgaag ttttgatttt gattaacatt gacaggatta ctgtgtgttt 1380
aattttttta aaactgaaca ctgtgattat ggggttttgt aatttagcag aactcttact 1440
ggtagaaaaa atagacctga attatgtgta acttttttga aggtttaatc tgatatcaaa 1500
ataatcattg aaatacaatt ccattgtaaa gttgtacaga aagttataga gatttatattg 1560
tgatgctgga acttgagtg agacacacat cttttggcat ttgagttgaa tggtaattca 1620
cagtaatgct gccgttgttc gggacttaaa gacacttgac ctgtttgggc tgttgccact 1680
taaaagttca tgaccacaaa tgtccacagt gtcttcctct gaggaactc gaatcctgaa 1740
atggaaattc tttgtggcag ataactggct tatgacacct tgaaaagttc aagtgtcat 1800
ataacacacc acactgaacc ccctttccta cagcaatatg ttactatgt taccaatttg 1860
caacttgctg tcatgtatg gaatcactt tcattgttaa cactgagcta aagaaaaaaa 1920
```

```

gcggtgtgtt ttatgaatga ccttatctgt ttcttgata ataccttta gaataatgtc 1980
ctgagtcagg cgtggtggtg cgtgcaccta gtcccaacta tttggggagg ctgaggcagg 2040
aggatcgctt gagcccaggg agtttaaagc tgcagtgcct tgtgggttgc acctgtgaat 2100
aacttgcact ccagcctggg gcaaacatag cgagacctca tctccaaaaa agaaaacaaa 2160
aaacaaaaaa aggaatgatg ttctgtagag atggcctttc acttgaggag tactcagttt 2220
tcaggttctt cctagctcgg ggctttttaa ttttgaaatc taaacattct ttcccaccat 2280
cctttttgac tgttgacctt ggttttctct totaagtttc tgtccctctg cttccttact 2340
ttttttcctt tttgaattct atctttatct gtcttttgtt cactttttta tgctatatat 2400
gggcaggggt gagagacatt actgagcacc ttggtgagca agcctggctt taaagattgg 2460
agaagagctt ctggcaccag aaccctgtct tctccagtt ctcaacatgg tgttgctctt 2520
cagtcatacc ggaatctgaa tcaaaaaagt atttttaaat atccatgatt tctccctgta 2580
ttgaggctag cctgatcat gctttttgtg cctgtcacca ggtctcccaa gtgcactcat 2640
ccaggctcag gctcagatgt gtttaaggag accctatatt cagggaagt gctgaacac 2700
tgcagtgggg agaattgaga atagtcaggc ctatcagttc cacagaatca cccctctacc 2760
tttgatatct cacttagctg tagagtccat ctggttgtcc atctgctgaa atgagaaaag 2820
aaaaatttat gcaactgatt aaaacaaacc aaaaaaaaag aaaaaaacca aaaaaaaat 2880
tccctccttt ctagctgaac aaaaatgtgc agttaatata gacaggcttg gttccacatt 2940
cactactgca ttttcaagcg ccaagtatta actgcagtag tgaatgtgga accaagcctg 3000
tctgtatata tggtagctct tttctggctt ggttttttct taccagtatt ctgcctaacg 3060
ttggcttctg tgatgggttat attgcctagc aagcacaccc gtggttgtga aaatagtata 3120
gcaaaaaaga aaaatccccg gttattgatg tactagattt gtgtatgtct tttaaacagt 3180
tctagtttca ccttacacag aataatcagg aaaagtgtaa aaattcaaaa gtgaaataaa 3240
aattttatca gttagttgcc tgtgaaaa 3268

```

<210> 92

<211> 2418

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 885713.5

<220>

<221> unsure

<222> 77

<223> a, t, c, g, or other

<400> 92

```

gcagattgca gggcccgggc tgacgggaag tgggtgggag ctgcctgcac acgcggtgcc 60
gcgggcgccg agtagangcg gagggagggg acacggggct cattgcggct gtgcgccctg 120
cactctgtcc ctcactcgcc gccgacgacc tgtctcgccc gagcgcacgc ccttgccgcc 180
gccccgcaga aatgctttcg gttaccacaca gtctttcgcc agatgagacc ggtgtccagg 240
gtactggctc ctcatctcac tcggggctta tgccaaagat gtaaaatttg gtgcagatgc 300
cccgagcctt aatgcttcaa ggtgtagacc ttttagccga tgcctgtggc gttacaatgg 360
ggccaaaggg aagaacagtg attattgagc agagttgggg aagtcccaaa gtaacaaaag 420
atggtgtgac tgttgcaaag tcaattgact taaaagataa atacaaaaac attggagcta 480
aacttgttca agatgttgcc aataacacaa atgaagaagc tggggatggc actaccactg 540
ctactgtact ggcacgctct atagccaagg aaggcttcga gaagattagc aaaggtgcta 600
atccagtgga aatcaggaga ggtgtgatgt tagctgttga tgcctgtaatt gctgaactta 660
aaaagcagtc taaacctgtg accacccttg aagaaattgc acaggttgct acgatttctg 720
caaacggaga caaagaaatt ggcaatatca tctctgatgc aatgaaaaaa gttggaagaa 780
aggggtgtcat cacagtaaag gatggaaaaa cactgaatga tgaattagaa attattgaag 840
gcatgaagtt tgatcgaggc tatatttctc catactttat taatacatca aaaggtcaga 900
aatgtgaatt ccaggatgcc tatgttctgt tgagtgaaaa gaaaatttct agtatccagt 960
ccattgtacc tgctcttgaa attgccaatg ctcaccgtaa gcctttgggtc ataatcgctg 1020
aagatgttga tggagaagct ctaagtacac tcgtcttgaa taggctaaag gttggctctt 1080
aggttgtggc agtcaaggct ccagggtttg gtgacaatag aaagaaccag cttaaagata 1140
tggtatttgc tactggtggg gcagtgtttg gagaagaggg attgaccctg aatcttgaag 1200
acgttcagcc tcatgactta ggaaaagttg gagaggtcat tgtgacccaa agacgatgcc 1260
atgctcttaa aaggaaaaag tgacaaggct caaattgaaa aacgtattca agaaatcatt 1320

```

PA-0024 US

gagcagttag	atgtcacaac	tagtgaatat	gaaaaggaaa	aactgaatga	acggcttgca	1380
aaacttttcag	atggagtggc	tgtgctgaag	gttgggtggga	caagtgatgt	tgaagtgaat	1440
gaaaagaaaag	acagagttac	agatgccctt	aatgctacaa	gagctgctgt	tgaagaaggc	1500
attgttttttg	gagggggttg	tgccctcctt	cgatgcattc	cagccttgga	ctcattgact	1560
ccagctaata	aagatcaaaa	aattggtata	gaaattatta	aaagaacact	caaaattcca	1620
gcaatgacca	ttgctaagaa	tgccaggtgt	gaaggatcct	tgatagttga	gaaaattatg	1680
caaagtccct	cagaagtggg	ttatgatgct	atggctggag	attttgtgaa	tatgggtggaa	1740
aaaggaatca	ttgacccaac	aaagggttgt	agaactgctt	tattggatgc	tgctgggtgtg	1800
gcctctctgt	taactacagc	agaagttgta	gtcacagaaa	ttcctaaaga	agagaaggac	1860
cctggaatgg	gtgcaatggg	tggaaatggga	ggtgggtatgg	gaggtggcat	gttctaactc	1920
ctagactagt	gctttacctt	tattaatgaa	ctgtgacagg	aagcccaagg	cagtgttcct	1980
caccaataac	ttcagagaag	tcagttggag	aaaatgaaga	aaaaggctgg	ctgaaaatca	2040
ctataaccat	cagttactgg	tttcagttga	caaaatatat	aatggtttac	tgctgtcatt	2100
gtccatgcct	acagataatt	tattttgtat	ttttgaataa	aaaacatttg	tacattcctg	2160
atactgggta	caagagccat	gtaccagtgt	actgctttca	acttaaatac	ctgaggcatt	2220
tttactacta	ttctgttaaa	atcaggattt	tagtgcttgc	caccaccaga	tgagaagtta	2280
agcagccttt	ctgtggagag	tgagaataat	tgtgtacaaa	gtagagaagt	atccaattat	2340
gtgacaacct	ttgtgtacaa	agtagagaag	tatccaatta	tgtgacaacc	tttgtgtaat	2400
aaaaatttgt	ttaaagtt					2418

<210> 93

<211> 1482

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 885713.13

<400> 93

ggcgcgaaata	agagccggac	cgcgcttgcg	cattgagtcc	cactccttcg	acctctgctg	60
cagcccgtgc	cgccgcggcc	tcctgggaag	cctcttttcc	tccgcagaga	ggaagcggga	120
gaggagccca	cgctgcctgt	cacccaatat	ctccagccgc	gcagtcccga	agagtgtgaag	180
atgttcgcct	gcgccaagct	cgctctgcac	ccctctctga	tccgagctgg	atccagagtt	240
gcatacagac	caattttctgc	atcagtgtta	tctcgaccag	aggctagtag	gactggagag	300
ggctctacgg	tatttaattgg	ggcccagaat	ggtgtgtctc	agctaatacca	aagggagttt	360
cagaccagtg	caatcagcag	agacattgat	actgctgcca	aattttattgg	tcaggtgtct	420
gcaacagtag	gagtggctgg	ttctgggtgt	ggtattggaa	cagtctttgg	cagccttata	480
attggttatg	ccagaaaccc	ttcgctgaag	cagcagctgt	tctcatatgc	tatcctggga	540
tttgccctgt	ctgaagctat	gggtctcttt	tgtttgatgg	ttgctttctt	gattttgttt	600
gccatgtaac	aaattactgc	ttgacatggt	ggcattcata	ttaattacgg	atgtaattct	660
gtgtatctta	ctgtgactcc	gaaaactgta	gtattgggtgt	catgggaatg	tacgtttattt	720
ccaaagtcac	ttcattaaag	atgaaaactt	taatttcttc	tgtgatttgt	acttacacta	780
agtttagatt	atcacaaaga	agaacgtgca	ttcaggcaga	tgctgtccca	ttcagaggaa	840
gctacagcag	ttgctccact	gatgaaaaat	attccaatgt	aattttttatg	ggaattcttt	900
tatatagtgt	tctgcatatt	gtaattcata	gggcttttgt	ttattcatat	aaaggataaa	960
tattttgggtg	ttttgagctt	ctataaaaata	tgattaatta	aaggtagtta	atactcaaga	1020
tggtcttgag	tttttaaggt	ctaacatcag	ttagaatact	tcaaatcaga	atcaccttcc	1080
aagactgact	tgacaggtgg	ttctaaaaat	aaatcacgtc	agcttttttag	gaaatgaagc	1140
cttaagctag	ggggtaatgt	gactttttgtt	tttcagtaag	tctcacatta	agcaattgtg	1200
tgctctaat	gaatcttcca	tgtcttttcca	gaacagaaac	tagcagctag	tttcttactt	1260
gaacaagact	attaaaaacc	aaatatcaaa	aaactgaatt	ggctagattt	ttacagccaa	1320
aaattgctgt	aaggcagtg	gtatcactgt	tgctaacaatg	tttatagtgg	gagtcttggg	1380
gatgatagct	ggttcaacag	tattttgtctg	ctaatacttt	atgttgcttc	ttgggtcaaac	1440
ttttcccat	caaaggaaga	agatgggtgt	actatagaca	gt		1482

<210> 94

<211> 2403

<212> DNA

<213> Homo sapiens

PA-0024 US

<220>
<221> misc_feature
<223> Incyte ID No: 481039.8

<220>
<221> unsure
<222> 594, 596, 598, 602, 604, 606, 608, 610, 614, 616, 618-662
<223> a, t, c, g, or other

<400> 94
ctgtgcccggg gcaagccttc gcgcccatacc cgcggagccc gttgcccgcc ggtccttcgt 60
cctgcaccag tccccggagc ccgctgcccg cgcctcccag gcccttcctc taccgcccgt 120
cgcccacgga ctccgacgtg tccctcgact ccgaggactc cggggctaag tctccaggca 180
tcctgggcta caatatctgt ccccgccgggt ggaatggcag ccttcggctc aagcgtggca 240
gcctccccgc cgaggcctcc tgcaccacct agagccccac ccccgacccc accccgggag 300
ggcagagcca gaagaaggct cattagacct gggggaccca aagggtcttg cctctttggg 360
cagccccaga gatgaggggt cagcagagga gagctctggg gttggggatg ggtagggac 420
gcaagcctga gttctagccc ttgctctcat tcagctgttg tgtgaccctg ggtaagacct 480
ttccttggtt gaccctcagc ttcccatctt gtttaatggg ggctttggcc aaggcaatcc 540
acaaacgtca aaattcccc tcccatcagt acacacaccg atgcacacac actntntntt 600
tntntntntn tctntntnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nntagttagt gccttggtat aggcggggca gtgtgtatat ggacccctgg acttgctacc 720
ttcagggttc catactcgtc cctccccctc tggtctctgt gtctggagtc tggcaagcgg 780
gggtgtgtca gaaggtccta ggctgtgtgc gcagtgtccag gcaactggcct gaccatccgg 840
ctccctggca ccaagtccca gggcaggagc agctgttttc catcccttcc cagacaagct 900
ctatttttat cacaatgacc tttagagagg tcctcccagg ccagctcaag gtgtcccact 960
atccccctct gaggaagag gcaggaaaat tctccccggg tccctgtcat gctactttct 1020
ccatcccagt tcagactgtc caggacatct tatctgcagc cataagagaa ttataaggca 1080
gtgatttccc ttaggccagc gacttgggccc tccagctcat ctgttccttc tgggcccatt 1140
catggcaggt tctgggctca aagctgaact ggggagagaa gagatacaga gctaccatgt 1200
gactttacct gattgccctc agtttggggt tgcttattgg gaaagagaga gacaaagagt 1260
tacttggtac gggaaatatg aaaagcatgg ccaggatgca tagaggagat tctagcaggg 1320
gacaggattg gctcagatga cccctgaggg ctcttccagt cttgaaatgc attccatgat 1380
attaggaagt cgggggtggg tgggtgggtg gggctagtgt ggtttgaatt taggggccga 1440
tgagcttggg tacgtgagca ggggtgtaag ttaggggtct cctgtatttc tgggtcccct 1500
ggaaatgtcc ccttcttcag tgtcagacct cagtcccagt gtccatatcg tgcccagaaa 1560
agtagacatt atccctcccc atcccttccc cagtgcactc tgacctagct agtgccctgg 1620
gcccagtgac ctggggggagc ctggctgcag gccctcactg gttccctaaa ccttgggtgg 1680
tgtgattcag gtccccaggg gggactcagg gaggaatatg gctgagttct gtagtttcca 1740
gagttgggct ggtagagcct tctagaggtt cagaatatta gcttcaggat cagctggggg 1800
tatggaattg gctgaggatc aaacgtatgt aggtgaaagg ataccaggat gttgctaaag 1860
gtgagggaca gtttgggttt gggacttacc ggggtgatgt tagatctgga acccccaagt 1920
gaggctggag ggagttaagg tcagtatgga agatagggtt gggacagggt gctttggaat 1980
gaaagagtga ccttagaggg ctccctgggg ctcaggaatg ctccctgctgc tgtgaagatg 2040
agaaggtgct cttactcagt taatgatgag tgactatatt taccaaagcc cctacctgct 2100
gctgggtccc ttgtagcaca ggagactggg gctaaggggc cctcccaggg aagggaacac 2160
atcaggcctc tggctgaggc agtagcatag aggatccatt tctacctgca tttcccagag 2220
gactagcagg aggcagcctt gagaaaaccg cagttcccac gccagcgcct ggctgttctc 2280
tcattgtcac tgccctctcc ccaacctctc ctctaaccac ctagagattg cctgtgtcct 2340
gcctcttgcc tctttagtaa tgcagctctg gccctcaata aatgcttctt gcattcttct 2400
gcc 2403

<210> 95
<211> 7390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 337896.11

<220>

<221> unsure

<222> 5097-5416

<223> a, t, c, g, or other

<400> 95

ccagcttgat	cttgaacctc	ctgtgtgtgg	gcagagagac	atggccctgc	tactgcttga	60
acggcttccg	gagacagtga	cttgttttct	ttttccctct	gaactatgcc	gtagggccag	120
gtgagctgct	gtgaaggact	cattcttggg	agccggcagt	tactggcaac	ttgtgagctt	180
ggtgggctcc	tactaacgca	cctgggacac	caggctgctg	ggctccctc	taggcagcct	240
cccctccagg	cagcctcacc	agcagctccc	ctgagccatg	gagaccccag	aggtccccgt	300
gggctcgcta	atcgactttg	ggcctgagge	acccacctct	tctccctgg	aggcaccacc	360
ccctgtgctg	caggacggcg	atggctccct	gggggacggg	gcatcagaga	gtgagaccac	420
tgagtctgcg	gacagtgaga	atgacatggg	cgagtcgccc	tcgcaccctg	cctgggacca	480
agaccgccgt	tcctcctcca	acgagtcctt	ctcctccaac	cagagcaccg	agtctaccca	540
ggatgaagag	accctggcac	tcagggactt	catgcgtggc	tacgtggaga	agatcttctc	600
tggagggggg	gacttggtatc	aggaggagaa	agccaagttt	ggagagtact	gcagcagtga	660
aaatggaaaa	ggccgggagt	ggtttgtctg	atacgtgagt	gcccagcgct	gcaactccaa	720
gtgtgtctca	gaggcaacct	tctaccgctt	ggtgcagtct	tttgcagtgg	tgctgttcga	780
gtgtcatcag	atggatgact	ttgggcctgc	caagaacctc	atgacctatg	gcttcaccta	840
ctaccacatc	ggaaaaccac	agctgctgcc	cccggagtcc	cgggagaagc	ccgcgggcag	900
catcgactcc	tacctgaat	ccgcaaacag	ctggctggcc	gaaaagaagg	acatcgccga	960
gcggtctgtg	aagaacacct	cggccaggac	tgagaatgtc	aagggcttct	tcgggggggt	1020
ggagaccaag	ctgaaggggc	ccctggccag	gaggaacgag	gaagacgaga	acaaacccca	1080
ggagaagcgg	cccagggtcg	tgaccgcgta	cagccccgag	gacgaaaaga	agggggagaa	1140
gatctacctg	tacacgcacc	tgaagcaaca	gccccatctg	cacactctga	ggttctggaa	1200
tgcagccttt	tttgacgtcg	tccattgtga	gaggacaaag	cgatctccca	ctaccaggga	1260
gaagtgggtg	cacatgaccc	aggaggagcg	cgacgcacag	ctccggttca	acgagaacat	1320
caccttcggg	cagctgggca	cattcacgca	caacatgctg	gcctttggac	tgaacaagaa	1380
gctgtgcaat	gacttccetga	agaagcagge	tgtgattggc	aacctggatg	aagagcaata	1440
caagctgctt	ttgagcaaat	ttgagcaaat	ggccactgag	taggccccag	aggtcgcact	1500
ccgcaggagg	actgaggcca	tgtgccattc	tcccgggccc	agcggccggc	cgtcacccca	1560
cccgatgacc	tgcataagc	cagcagcacc	cagagccact	cctgctgccc	tagaactagc	1620
ggttagaaga	atccgctgtt	cctccctcat	ctcctctgcc	tgtgtctgcg	acccccatcc	1680
atgtgccaaa	gtgtcccttg	ggtcacacag	ctaaagccga	ggtgaccagt	tgtaccccca	1740
gtgccaggct	tgtgagatga	gaccaagagg	gaggaggggg	aggactccat	gggccatcgt	1800
gggccaaggg	ctggcgaggg	tgggggcggg	caagggatgc	aggcaggaca	gccatgaggt	1860
ggggctgcag	ccggcacacc	cagtgggtgga	gggcccggcg	tgccactcac	ggtgggtggc	1920
cgtggggccac	cttccctgca	atgggtgcac	acgcggctcc	catccagccc	tctcagcgtg	1980
gggctgtggc	tggtccctcac	tattccccag	tctcccgctg	tggggcagga	acaggaagtg	2040
acgggaacct	tgaggaggaa	acgcctgtgt	tagggagaga	gtgggtgctg	tgtagaggat	2100
gctcttggcc	ggctggagca	agacctgggt	cccaccagag	ggacgtgtgt	gtgcctgcag	2160
acggcccggg	agctgtgtgt	ctccgcagga	tgccagagtg	tgccgaggtg	tccgcggcag	2220
accacacaga	ccgtctgaaa	tgcgcccgc	tggcggacag	ctcccttctg	aagcagagaa	2280
gcctccatgg	tcacgaagca	gcgttgtgtc	gtgtgtccct	cgcaagaagc	acaggaaaga	2340
gaagtttctt	tagtagccac	tagacaacca	ccctttctga	aagcaaacag	tgctgtctct	2400
tattccagac	aaggcaggaa	agtctgagtt	gggagtgaca	gtggctggag	agaagcagat	2460
ctgtgcaacg	tgcaggggca	gccagtggcg	tggcctctgc	ctctaagcgc	tgagcatttg	2520
gccccttccc	caccagacct	ttgtagctcc	tccagcctct	gcagagactc	ccttcacctc	2580
gcaacttactg	cctgggaacc	acggcccttc	tcttctgtgg	gtctgtacca	ggtactccag	2640
gccagcccat	gggcccgggg	cctgacccca	acacctgcat	gctgggtcca	gagccttctg	2700
tttcaccgtg	cgtggacact	gctagggcgc	ctgggggtccc	ctgcctcctg	cctgtcgctg	2760
ccgtgggtccc	tgactgcgaa	ataggcccgc	ggggctctcc	ctcctcctgc	catcctcccc	2820
tcccgccttt	cctggctacc	tcctctgaca	tgcggtcaga	taagtcccgt	cttgtttctg	2880
agtaccacag	aaacgcctga	gagtcactta	cccggccact	gcttgggaagg	tttccctcgg	2940
gggaatgcct	ccctggaatg	ttccagagac	ggaacattct	ctagagacaa	cagtctgtgc	3000
tgcagattgg	ttggatcaca	gaatgtgtgt	ctggggcatt	atctgaaacg	tgggtgtcatc	3060
tgatgcattt	ggaccatatg	ctgccagact	gcagaacggg	ggagccgggg	ctcagggccc	3120
ctgactgcat	ggtgcatgag	tgatctcage	ctagcgatgc	cgctggccag	accgtgacca	3180
tgctgccagt	gtgctcgcca	tgagctgggt	cagggtctgg	gagttgtgca	ggctgggggtg	3240
acccttcccc	atctgtgtgg	ccccaacggg	catgtctcca	ccgaatccat	ttagagaaat	3300

gtcagagcga	gggttgtgtg	gacacccctc	gctctgatgc	caactgcaga	taatacacac	3360
ctcctgcagc	gtccagccac	ggctccaggg	cactgctctc	ctccttgcac	cggtgaaact	3420
caggccacac	tcaagggctg	actgtccagg	cgctcccttc	agccgcctcg	tcgtcagcgt	3480
tcttagtcat	gcattattcg	tgtagctga	aatgcattca	gactttgttc	tgcggtgccc	3540
acaggactta	cccctgtatg	tacaggattt	ttgtatgaaa	gttttgtttg	attctgagac	3600
tctcttggga	acgctggaga	gcttgtgcac	agcctctgga	aggaaaggca	gcgctgactt	3660
cgttgggctt	ttttccaagc	actttaactt	cagaaatggt	cttgacactt	ttttctccac	3720
atagactctt	gaaatagcca	tttcagggga	ggaaaggggt	ggggttttct	ttgttcgtct	3780
gtttgtttcc	ccctttacta	cctgttcttg	tagatctagc	tcctcagagt	tggaggaagg	3840
ctgacagaga	aggtctcctc	tgtgtcccat	ccacacagga	tgccggagag	acagcccctt	3900
gtgctgtgag	cagagcaggc	agtggctctg	gaggetgcct	gtggtctcct	tcgggctgtg	3960
gctgacagtg	gctctggcca	gggttgcttg	gagaaggctc	agtgtgcctg	ggacaggggt	4020
taccacctgc	caccaaggtt	tcctctcttc	ccccaggacc	tgggcagagc	aggcatgagc	4080
tgggctgtgg	tgacagagcaa	gcagacccag	ccacactgct	caaaggtccc	tgctgtggga	4140
ggtgtcacac	caggggcaca	cccagggcca	cctgggtgta	ggagagctct	ggtggcccct	4200
ccgtaaactc	aggaagtgtc	aggtgatttc	ctagggagag	gttcccagtc	ccagcaggca	4260
gaatgcccac	aaccaggagc	acgaaggcct	gtcatccatg	gggccattgc	aggcactctg	4320
ccgcccagct	ttgagggtcg	tgccaatcct	agtgaaccaa	aatgcaaaca	actcacacaa	4380
gtgaaaagct	ccctgctttg	aaaacaggac	atgttgacag	gcagcatggt	atgttttttag	4440
cctttgttac	agttttagca	acattgatgt	ctaagagggg	ccgtggtaat	agattgcata	4500
tgccctgtgc	atgcgcattg	ttaaccacag	gccagagaa	tcaattctga	tgctgtaagt	4560
tctctgtaag	tgaatgggg	tagactgtat	gattttccta	ttgccaaaag	aaagaaaggg	4620
ggccaaacag	ctctgaaatt	tccaaaaaat	ggctagaggg	agagtccagt	ttctgagctc	4680
tgtaccacaa	ttaaaaatcct	gatgttcagg	ttaatccaag	caacacgcac	tgggttttaa	4740
accagcaccc	aggcccagtg	ggggaatcac	agacatccac	aagtctcgtc	ttctttcctt	4800
cctgtgagtt	gaaaccaa	aggcctctcg	ctcactcctc	ccagcccagt	aatgctgagg	4860
agttcagttg	tgaggaaaga	aggctggagc	tgtgagattc	gcttttcctt	aggctgttcc	4920
gcgtgggtta	ccttatcacc	ctggagcact	tggtattcca	gacccctgac	atgaggaatg	4980
caggttcaca	ctgtaaagag	tttgtgaaag	gtttcagttc	aactgggggt	ccttagctgg	5040
aagccagggc	tggaagctac	aggcctgacc	ttcctgggtc	ccactatctg	ttggcannnn	5100
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	5160
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	5220
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	5280
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	5340
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	5400
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	5460
gaattaccta	aaaccagacc	acagcacagc	cagggagccc	agtagtggtt	ccaagaacag	5520
tgtggagctt	gagaaagaga	actttaaaaa	ttagaggggc	cctttctgca	gaggaaggga	5580
tgctcgcagg	gtggcagtg	cccagcccca	gcctcaggga	cggggagggg	gagccccctc	5640
tgggcccagc	aggcaggtgt	tctgaggetg	gtccctcctc	agtttccgca	gccacaagge	5700
gaaacggcca	gattctcact	caaggtegtt	ctcactcctt	ttcctgtccc	gtttccagtc	5760
ccactgagcc	attcactttc	gctgaaccat	ttttcttagg	atgcagccgt	ctcactccct	5820
tgctctgtaa	atcgtgtatt	catgttgatg	attcttgagg	ataggtttca	ctttttccca	5880
gctgcgtcca	caggaaagg	gagtcggatg	ccagctgcac	ccgcctggc	tcgcacagge	5940
taagaccaca	gacagagcag	ggcttcccg	agccacacag	gccacgcacc	ccaggaaccc	6000
ttgctgctgc	gggccaggaa	caggaatgtg	ttggtgcctg	agacaccaa	tggaagaagc	6060
acatcaagac	tgttctcctg	cggccaacac	tgcccccggaa	gccgccctcc	atacaggccc	6120
tcagggggcc	tgcttctgc	gcctcagtc	cccgctgcac	cctgggcctg	ggtatcacat	6180
gctctccagg	aaagggacgg	aatcaatcgt	gtgaccgatg	ggctcgcaag	gatgggtgcc	6240
gccgtgggag	ccctgcctct	ggtgctggca	agggattggg	tttgtgtggg	tgtctctagc	6300
ctgcagagt	cagtgagtga	gagtccttgg	gagcgcggcg	ctgcctgtag	ctgcgcctgg	6360
ggatgcacgt	ggccacggga	tttcagtg	acagcgctcc	cacaggggct	gggggtgggg	6420
gtgggggttc	ttagtacttg	ttggaaagg	aaaaattcac	catatccaag	gggagagacg	6480
atgggctggg	ttgtttact	ccaacttccc	ttctacaccc	ctcctgcagg	acagtacgat	6540
ttggggagaa	cccagctccc	cactttatct	gcagactctg	ggacctgaca	aaacagtcag	6600
agcctgagtg	cactgcagcc	tgaactccct	tgagcagcgc	tataaggggac	tttgactttt	6660
aaaaagggga	tgctgtcag	taaataccct	gtgcattgac	tagaactggg	gggctgcgcc	6720
cgctccctcc	ttaatcctag	atgatttgc	catgaaatag	aggtggggga	cgaccgcag	6780
cactctggga	ggtgcagccc	taaggggtgg	actccagatc	tccttgcaag	agacagcttg	6840
gcttggcttt	ggctgttggg	gaggagtccc	tgccatccc	gtgagcctgg	ggctgttgct	6900
tagggctctc	tgggtggaca	cgtggagaaa	gagaaggcaa	acgttggaac	actaggaaaa	6960

PA-0024 US

gctagaaatt	cagacaacac	acatggatcc	ccttaaaaca	tgtaaattgt	tcagaacacg	7020
gttgacctgc	cgccttcttg	aacctgggtg	cccccgttgg	aactatcagt	ggcgtctccc	7080
atgcacacgc	cctctgcttt	ctctttccta	gactcgcggt	gctcacatcc	agacattacc	7140
ttgttggtag	cccccaagt	gcgtgcagtg	acaccagtat	cttctctgtt	gcattttttgc	7200
aatcttgtgt	cccgtcgggt	gatgtttctac	aaactctgtt	ttaaggttga	gaaagtttca	7260
aggggtgaaga	tctcaaaaca	gtgctaaaat	caaaggtgtt	tgctgtgaag	aaaaacatgt	7320
gtatatattg	caccttgagt	tgtcagaagg	tagaaaactga	aataaactaa	ctttaaaaaa	7380
aaaaaaaaagg						7390

<210> 96

<211> 1272

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 951830.16

<400> 96

tttttcatag	acagaggcta	acaaatcctg	cctcaggttt	atattgtacaa	atagcacagg	60
aggaccccca	gcccccatgc	aaaatggtaa	ccccaggggc	ggggggtggg	gggtcgcacc	120
agtccttctg	tcctccatgt	tggcagagaa	tacctactct	gaagcctttg	taggggccct	180
gggtacggtt	ttgggagcct	gagctgggaa	ctgaagctgg	ggctgcagcc	tggggccttg	240
gtttgatcct	tggccttggc	ctggccttgg	ccttggcctt	ggccttggcc	tttggccggc	300
acagcctgag	ccccctgggc	aatacggggc	acgaagcacg	cttcccaagc	ttggggcggg	360
caatgtaggc	aaagtcgata	gagcttgccg	cttgacaccc	ttttgggatc	ttgggcttaa	420
ccttccttgg	gctttacaag	ggccttgata	agcctcggca	cgtgcactca	tggccttggc	480
atcgttggcc	tgcattctct	ttaggccctt	tttgtctgtg	cttcttggca	aagcgcattg	540
tcctcaggaa	cttgggggtcc	acccctttaa	gagattcgta	tctttgtgat	cgggggtttct	600
tgataccatt	tctgtgccat	tttcgggagc	cgcggcttat	ggtgcagaca	tggccaagtc	660
caagaaccac	accacacaca	accagtcctg	aaaatggcac	agaaatggta	tcaagaaacc	720
ccgatcacaa	agatacgaat	ctcttaaggg	ggtggacccc	aagttcctga	ggaacatgcg	780
ctttgccaa	aagcacaaca	aaaagggcct	aaagaagatg	caggccaaca	atgccaaagg	840
catgagtgc	cgtgccgagg	ctatcaaggc	cctcgtaaag	cccaaggagg	ttaagcccaa	900
gatcccaaag	ggtgtcagcc	gcaagctcga	tcgacttgcc	tacattgccc	accccaagct	960
tgggaagcgt	gctcgtgccc	gtattgcaa	ggggctcagg	ctgtgccggc	caaaggccaa	1020
ggccaaggcc	aaggccaagg	atcaaaccaa	ggcccaggct	gcagcccag	cttcagttcc	1080
agctcaggct	cccaaacgta	cccaggcccc	tacaaaggct	tcagagtaga	tatctctgcc	1140
aacatgagga	cagaaggact	ggtgcgaccc	cccacccccg	cccctgggct	accatctgca	1200
tggggctggg	gtcctcctgt	gctatttgta	caaataaacc	tgaggcagga	tttgtcaaaa	1260
aaaaaaaaaa	gg					1272

<210> 97

<211> 4675

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 234630.26

<400> 97

agcggacccc	agcctctgcc	aggttcgggtc	cggcaccctc	gtcccgctct	ccgcgggccc	60
ctgccccgcg	cccagggatc	ctccagctcc	tttgcggcgc	gccctccgtt	cgtccgggac	120
accatgggaca	agttttgggt	gcacgcagcc	tggggactct	gcctcgtgcc	gctgagcctg	180
gcgcagatcg	atattgaatat	aacctgcgcg	tttgcagggt	tattccacgt	ggagaaaaat	240
ggtcgctaca	gcattctctg	gacggaggcc	gctgacctct	gcaaggcttt	caatagcacc	300
ttgcccacaa	tggcccagat	ggagaaagct	ctgagcatcg	gatttgagac	ctgcaggtat	360
gggttcatag	aagggcatgt	ggtgattccc	cggatccacc	ccaactccat	ctgtgcagca	420
aacaacacag	gggtgtacat	cctcacatcc	aacacctccc	agtatgacac	atattgcttc	480
aatgcttcag	ctccacctga	agaagattgt	acatcagtca	cagacctgcc	caatgccttt	540

gatggaccaa	ttaccataac	tattgttaac	cgtgatggca	cccgctatgt	ccagaaagga	600
gaatacagaa	cgaatcctga	agacatctac	cccagcaacc	ctactgatga	tgacgtgagc	660
agcggctcct	ccagtgaag	gagcagcact	tcaggagggt	acatctttta	caccttttct	720
actgtacacc	ccatcccaga	cgaagacagt	ccctggatca	ccgacagcac	agacagaatc	780
cctgctacca	atatggactc	cagtcatagt	acaacgcttc	agcctactgc	aaatccaaac	840
acaggtttgg	tggaagatth	ggacaggaca	ggacctcttt	caatgacaac	gcagcagagt	900
aattctcaga	gcttctctac	atcacatgaa	ggcttgggaag	aagataaaga	ccatccaaca	960
acttctactc	tgacatcaag	caataggaat	gatgtcacag	gtggaagaag	agacccaaat	1020
cattctgaag	gctcaactac	tttactggaa	ggttataacct	ctcattaccc	acacacgaag	1080
gaaagcagga	ccttcatccc	agtgcacctca	gctaagactg	ggtccttttg	agttactgca	1140
gttactgttg	gagattccaa	ctctaattgtc	aatcgcttcc	tatcaggaga	ccaagacaca	1200
ttccacccca	gtgggggggtc	ccataccact	catggatctg	aatcagatgg	acactcacat	1260
gggagtcraag	aagggtggagc	aaacacaacc	tctggctcta	taaggacacc	ccaaattcca	1320
gaatggctga	tcactcttggc	atccctcttg	gccttggctt	tgattcttgc	agtttgcatt	1380
gcagtcaaca	gtcgaagaag	gtgtggggcag	aagaaaaagc	tagtgatcaa	cagtggcaat	1440
ggagctgtgg	aggacagaaa	gccaaagtga	ctcaacggag	aggccagcaa	gtctcaggaa	1500
atggtgcatt	tggatgaaca	ggagtcgtca	gaaactccag	accagtttat	gacagctgat	1560
gagacaagga	acctgcagaa	tgtggacatg	aagattgggg	tgtaacacct	acaccattat	1620
cttggaaaga	aacaaccgtt	ggaaacataa	ccattacagg	gagctgggac	acttaacaga	1680
tgcaatgtgc	tactgattgt	ttcattgcga	atctttttta	gcataaaatt	ttctactctt	1740
tttgtttttt	gtgtttttgt	ctttaaagtc	aggtccaatt	tgtaaaaaca	gcattgcttt	1800
ctgaaattag	ggcccaatta	ataatcagca	agaattttgat	cgttccagtt	cccacttgga	1860
ggcctttcat	ccctcgggtg	tgctatggat	ggcttctaac	aaaaactaca	catatgtatt	1920
cctgatcgcc	aacctttccc	ccaccagcta	aggacatttc	ccagggttaa	tagggcctgg	1980
tccctgggag	gaaatttgaa	tgggtccatt	tggcccttcc	atagcccta	ccctgggcat	2040
tgctttccac	tgaggttggg	ggttgggggtg	tactagttac	acatcttcaa	cagacccctt	2100
ctagaaattt	ttcagatgct	tctgggagac	acccaaaggg	tgaagctatt	tatctgtagt	2160
aaactatttta	tctgtgtttt	tgaaatatta	aacctgtgat	cagtcccttg	atcagtataa	2220
ttttttaaag	ttactttgtc	agaggcacia	aagggtttta	actgattcat	aataaatatc	2280
tgtacttctt	cgactttcac	cttttgtgct	gtgattcttc	agtttctaaa	ccagcactgt	2340
ctgggtccct	acaatgtatc	aggaagagct	gagaatggta	aggagactct	tctaagtctt	2400
catctcagag	accctgagtt	cccactcaga	cccactcagc	caaactctcat	ggaagaccaa	2460
ggagggcagc	actgtttttg	ttttttgttt	tttgtttttt	tttttttgac	actgtccaaa	2520
ggttttccat	cctgtcctgg	aatcagagtt	ggaagctgag	gagcttcagc	ctctttttatg	2580
gttttaattgg	cacctgttct	ctcctgtgaa	aggtcttgca	aagtcacatt	aagtttgcatt	2640
gacctgttat	ccctggggcc	ctatttctata	gaggctggcc	ctattagtga	tttccaaaaa	2700
caatatggaa	gtgccttttg	atgtcttaca	ataagagaag	aagccaatgg	aaatgaaaga	2760
gattggcaaa	ggggaaggat	gatgccatgt	agatcctgtt	tgacattttt	atggctgtat	2820
ttgtaaactt	aaacacacca	gtgtctgttc	ttgatgcagt	tgctatttag	gatgagttta	2880
gtgcctgggg	agtccctcaa	aaggttaaag	ggattcccat	cattggaatc	ttatcaccag	2940
ataggcaagt	ttatgaccaa	acaagagagt	actggcttta	tcctctaacc	tcataattttc	3000
tcccacttgg	caagtccctt	gtggcattta	ttcatcagtc	agggtgtccg	attggctcta	3060
gaactttcaa	aggctgcttg	tcatagaagc	catgtcatct	ataaagcaac	ggctcctgtt	3120
aaatggatc	tcctttctga	ggctcctact	aaaagtcatt	tgttacctaa	acttatgtgc	3180
ttaacaggca	atgtttctca	gaccacaaag	cagaaagaag	aagaaaagct	cctgactaaa	3240
tcagggtctg	gcttagacag	agttgatctg	tagaatatct	ttaaaggaga	gatgtcaact	3300
ttctgcaact	ttcccagcct	ctgtctctcc	ctgtctaccc	tctccctccc	ctctctccct	3360
ccacttcacc	ccacaatctt	gaaaaacttc	ctttctcttc	tgtgaacatc	attggccaga	3420
tccattttca	gtggtctgga	tttcttttta	ttttcttttc	aacttgaaag	aaactggaca	3480
ttaggccact	atgtgtttgt	actgccacta	gtgttcaagt	gcctcttgtt	ttcccagaga	3540
tttctgtgg	ctgccagagg	cccagacagg	ctcactcaag	ctctttaaact	gaaaagcaac	3600
aagccactcc	aggacaaggt	tcaaaatggt	tacaacagcc	tctacctgtc	gccccaggga	3660
gaaaggggta	gtgatacaag	tctcatagcc	agagatgggt	ttccactcct	tctagatatt	3720
cccaaaaaga	ggctgagaca	ggaggttatt	ttcaatttta	tttttggaatt	aaatactttt	3780
ttccctttat	tactgttgta	gtccctcact	ttgatatacc	tctgttttca	cgatagaaat	3840
aaggggaggtc	tagagcttct	attccttggc	cattgtcaac	ggagagctgg	ccaagtcttc	3900
acaaaccctt	gcaacattgc	ctgaagttta	tggataaaga	tgtattctca	ctcccttgat	3960
ctcaagggcg	taactctgga	agcacagctt	gactacacgt	cattttttacc	aatgattttc	4020
aggtgacctg	ggctaagtca	tttaaactgg	gtcttttata	aagtaaaagg	ccaacattta	4080
attatttttgc	aaagcaacct	aagagctaaa	gatgtaattt	ttcttgcaat	tgtaaatctt	4140
ttgtgtctcc	tgaagacttc	ccttaaaatt	agctctgagt	gaaaaatcaa	aagagacaaa	4200

PA-0024 US

agacatcttc	gaatccatat	ttcaagcctg	gtagaattgg	cttttctagc	agaacctttc	4260
caaaagtttt	atattgagat	tcataacaac	accaagaatt	gattttgtag	ccaacattca	4320
ttcaatactg	ttatatcaga	ggagtaggag	agaggaaaca	tttgacttat	ctggaaaagc	4380
aaaatgtact	taagaataag	aataacatgg	tccattcacc	tttatgttat	agatatgtct	4440
ttgtgtaaat	catttgtttt	gagttttcaa	agaatagccc	attgttcatt	cttgtgctgt	4500
acaatgacca	ctgttattgt	tactttgact	tttcagagca	cacccttcct	ctgggttttg	4560
tatatattat	gatggatcaa	taataatgag	gaaagcatga	tatgtatatt	gctgagttga	4620
aagcacttat	tggaaaatat	taaaaggcta	acattaaaag	actaaaggaa	acaga	4675

<210> 98

<211> 2063

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 444820.3

<400> 98

tctggggagg	aggatggaca	caacatccca	tctttgtggt	tcgatacaga	ctaagctttt	60
aggccaaccc	tcctgactgg	atgggggcgg	cgggcgtggc	atgcatgaaa	agtaaaccatc	120
agagacctga	agaagcttat	aaaatagctt	gggagaggcc	agtcaccaag	acaggcatct	180
caaatcggtc	gattctgcat	ctggaaactg	ccttcactct	gaaagaaaag	ctccagggtcc	240
cttctccagc	caccagcccc	caagatgggt	atggctggct	tgctgctgct	gctgctttcc	300
gcaactgggt	gggcctcttc	gggtgcggcag	agggacaagc	atttcactct	ggggaagtgc	360
cccaatcctc	cggtgcagga	gaattttgac	gtgaataagt	atctcggaag	atgggtacgaa	420
attgagaaga	tcccaacaac	ctttgagaat	ggacgctgca	tccaggccaa	ctactcacta	480
atggaaaacg	gaaagatcaa	agtgttaaac	caggagttga	gagctgatgg	aactgtgaat	540
caaatcgaa	gtgaagccac	cccagttaac	ctcacagagc	ctgccaagct	ggaagttaag	600
ttttcctggt	ttatgccatc	ggcaccgtac	tggatcctgg	ccaccgacta	tgagaactat	660
gccctcgtgt	attcctgtac	ctgcatcacc	caactttttc	acgtggattt	tgcttggtac	720
ttggcaagaa	accctaattc	ccctccagaa	acagtggact	ctctaaaaaa	tatcctgact	780
tctaataaca	ttgatgtcaa	gaaaatgacg	gtcacagacc	aggtgaactg	ccccaagctc	840
tcgtaaccag	gttctacagg	gaggtgcac	ccactccatg	ttacttctgc	ttcgctttcc	900
cctacccccac	cccccccat	aaagacaaac	caatcaacca	cgacaaagga	agttgacct	960
aacatgtaac	catgccctac	cctgttacct	tgctagctgc	aaaataaaact	tgttgctgac	1020
ctgctgtgct	cgcaaggtaa	cagggtaggg	catgggtaca	tgtttaggtc	aacttccttt	1080
gtcgtggttg	attggtttgt	ctttatggcg	gggggtgggg	taggggaaag	cgaacgagaa	1140
gtaacatgga	gtgggtgcag	cctccctgta	gaacctgggt	acgagagctt	ggggcagttc	1200
acctggtctg	tgaccgtcat	tttcttgaca	tcaatgttat	tagaagtcag	gatatttttt	1260
agagagtcca	ctgtttctgg	agggagatta	gggtttcttg	ccaagatcca	agcaaaaatcc	1320
accgttgaaa	aagtttggat	gatgcaggta	caggaataca	cgagggcata	gttctcatag	1380
tcggtggccc	aggatccagt	acggtccgat	ggcataaaacc	aggaaaactt	aacttcagc	1440
ttggcaggct	ctgtgaaggt	ttaactgggt	tggtttcacc	ttccgatttg	attcacagtt	1500
cccatcagct	ctcaactccc	tggtttaaca	ctttgatctt	tccgttttcc	attagttagt	1560
agttggcctg	gatgcagcgt	ccattctcaa	aggttggttg	gatcttctca	atttcgtacc	1620
atcttccgag	atacttattc	acgtcaaaaat	tctcctgcac	cggaggattg	gggcacttcc	1680
caagatgaaa	tgcttgtccc	tctgccgcac	cgaagaggcc	agccagtgcg	gaaagcagca	1740
gcagcagcat	caccatcttg	gggctgggtg	gctggagaag	ggacctggag	cttttctttc	1800
aagatgaagg	cagtttccag	atgcagaatc	agccgatttg	agatgcctgt	cttgggtgact	1860
ggcctctccc	aagctatttt	ataagcttct	tcaggctctc	gatgtttact	tttcatgcat	1920
gccacgcccg	ccgcccccat	ccagtcagga	gggttggcct	aaaagcttag	tctgtatcga	1980
aacacaaaaga	tgggatgttg	tgtccatcct	cctcccccca	tttcttccac	agctgctccc	2040
tgaagaagaa	atgagatatt	ggt				2063

<210> 99

<211> 759

<212> DNA

<213> Homo sapiens

<220>

PA-0024 US

<221> misc_feature

<223> Incyte ID No: 230012.44

<220>

<221> unsure

<222> 245

<223> a, t, c, g, or other

<400> 99

```
tttttttgca tttcatatattt attatcagtg cttcaatata gaatgttttg taatgattag 60
caacattgta aacaccacca gggtttttcca acactaactg ctagtctttt ccagtaaata 120
ttttttcccc agagaattcg attcgaattc atgggttcgct attcacttga cccggagAAC 180
cccacgaaat catgcaaate aagaggttcc aatcttcgtg ttacttttaa gaacactcgt 240
gaaantgctc aggcccatca agggatatgca tatacgaaaa gccacgaagt atctgaaaga 300
tgtoacttta cagaaacagt gtgtaccatt cgcacgttac aatgggtggag ttggcagggtg 360
tgcgcgaggcc aagcaatggg gctggacaca aggtcgggtgg cccaaaaaga gtgctgaatt 420
tttgctgcac atgcttaaaa acgcagagag taatgctgaa cttaagggtt tagatttaga 480
ttctctggtc attgagcata tccaagtgaA caaagcacct aagatgcgcc gccggaccta 540
cagagctcat ggtcggatta acccatacat gagctctccc tgccacattg agatgatcct 600
tacggaaaag gaacagattg ttcttaaacc agaagaggag gttgcccaga agaaaaagat 660
atcccagaag aaactgaaga aacaaaaact tatggcacgg gagtaaatc agcattaaaa 720
taaattgtaat taaaaggaaa agaattgttg ttgtcttta 759
```

<210> 100

<211> 1203

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233653.9

<400> 100

```
attacggcgc agtgtgctgg caagcgccct tgctcgccgc cgcgcgcgc ctcgcccct 60
ggccccgcgc cgcccggcgc gcccgccgc cggggggatg tcttacaac cgaacttggc 120
cgcgcacatg cccgcgcgc cctcaacgc cgtggggagt gtccactgc cttccaccag 180
catggcaacg tcttcacagt accgccagt gctcagtgc tacgggccac cgtccctagg 240
ctacaccag ggaactggga acagccaggt gccccaaagc aaatacgcgc agctgctggc 300
catcattgaa gagctgggga aggagatcag acccacgtac gcaggagca agagtgccat 360
ggagaggctg aagcgcggca tcattcacgc tagaggactg gttcgggagt gcttggcaga 420
aacggaacgg aatgccagat cctagctgcc ttggttggtt tgaaggattt ccatcttttt 480
acaagatgag aagttacagt tcatctcccc tgttcagatg aaacccttg tttcaaatg 540
gttacagtgt cgtttttcct cccatgggtt acttggtct gaacctacag tctcaaagat 600
tgagaaaaga ttttgagttt aattaggatt tgcattttta gtagttagga actgccagg 660
ttttttttgt tttttaagca ttgatttaaa agatgcacgg aaagtatatc tacagcaaac 720
tgtagtttgc ctccaagaca ccattgtctc cctttaatct tctcttttgt atacatttgt 780
taccatggt gttctttgtt ctttttcata agctaatacc actgtaggga ttttgttttg 840
aacgcataat gacagcacgc tttacttagt agccgggtcc catttgccat acaatgtagg 900
ttctgcttaa tgtaacttct tttttgctta agcatttgca tgactattag tgcttcaaag 960
tcaattttta aaaatgcaca agttataaat acagaagaaa gagcaaccca ccaaacctaa 1020
caaggacccc cgaacacttt catactaaga ctgtaagtag atctcagttc tgcgtttatt 1080
gtaagttgat aaaaacatct ggaagaaaat gactaaaact gtttgcatct ttgtatgtat 1140
ttattacttg atgtaataaa gcttattttt attaacaatt tgtattaaaa tgtgggttcc 1200
ttg 1203
```

<210> 101

<211> 660

<212> DNA

<213> Homo sapiens

<220>

PA-0024 US

<221> misc_feature

<223> Incyte ID No: 255844.48

<400> 101

```
gcaggtggtg gaaaagcaga accttagcaa agaggagctg atagcggagt gcaggtgacc 60
gctgatgtca tcaacgcagc tgagaaactc caggtggtgg gcagggctgg cacaggtgtg 120
gacaatgtgg atctggaggc cgcaacaagg aagggcacatc tggttatgaa ccccccaat 180
gggaacagcc tcagtgccgc agaactcact tgtggaatga tcatgtgcct ggccaggcag 240
attccccagg cgacggcttc gatgaaggac ggcaaatggg agcgggaagaa gttcatggga 300
acagagctga atggaaagac cctgggaatt cttggcctgg gcaggattgg gagagaggta 360
gctacccgga tgcagtcctt tgggatgaag actatagggt atgaccccat catttcccca 420
gaggtctcgg cctccttttg tgttcagcag ctgcccctgg aggagatctg gcctctctgt 480
gatttcatca ctgtgcacac tcctctcctg cctccacga caggcttgct gaatgacaac 540
acctttgccc agtgcaagaa gggggtgcgt gtggtgaact gtgcccgtgg agggatcgtg 600
gacgaaggcg ccctgctccg ggccctgcag tctggccatg tgcggggctg cactggacgt 660
```

<210> 102

<211> 1395

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1000124.9

<400> 102

```
ggcggagtgg ccttctgtgg acgaatcaga ttctctcca gcaccgactt taagaggcga 60
gccgggggggt caggggccca gatgcacagg aggagaagca ggagctgtcg ggaagatcag 120
aagccagtca tggatgacca gcgcgacctt atctccaaca atgagcaact gcccatgtctg 180
ggccggcgcc ttggggcccc ggagagcaag tgcagccgcg gagccctgta cacaggcttt 240
tccatcctgg tgaacttgct cctcgctggc caggccaacca ccgcctactt cctgtaccag 300
cagcagggcc ggctggacaa actgacagtc acctcccaga acctgcagct ggagaacctg 360
cgcatgaagc ttccaagcc tccaagcct gtgagcaaga tgcgcatggc cccccgctg 420
ctgatgcagg cgctgcccat gggagccctg ccccaggggc ccatgcagaa tgccaccaag 480
tatggcaaca tgacagagga ccatgtgatg cacctgctcc agaatgctga cccctgaag 540
gtgtacccgc cactgaaggg gagcttcccg gagaacctga gacaccttaa gaacaccatg 600
gagaccatag actggaaggt ctttgagagc tggatgcacc attggctcct gtttgaaatg 660
agcaggcact ccttgagaca aaagcccact gacgctccac cgaaagagtc actggaactg 720
gaggacccgt cttctgggct ggggtgtgacc aagcaggatc tgggcccagt ccccatgtga 780
gagcagcaga ggcggtcttc aacatcctgc cagccccaca cagctacagc tttcttgctc 840
ccttcagccc ccagcccctc ccccatctcc caccctgtac ctcatcccat gagaccctgg 900
tgcctggctc ttctgtcacc ctgggacaag acaaaccaag tcggaacagc agataacaat 960
gcagcaaggc cctgctgccc aatctccatc tgtcaacagg ggcgtgaggt cccaggaagt 1020
ggccaaaagc tagacagatc cccgttctctg acatcacagc agcctccaac acaaggctcc 1080
aagacctagg ctcatggacg agatgggaag gcacaggag aagggataac cctacacca 1140
gaccccaggc tggacatgct gactgtcctc tcccctccag cctttggcct tggcttttct 1200
agcctattta cctgcaggct gagccactct ctccctttc cccagcatca ctcccaagg 1260
aagagccaat gttttccacc cataatcctt tctgccgacc cctagtctcc tctgctcagc 1320
caagcttggt atcagctttc agggccatgg ttcacattag aataaaagg 1380
aaaaaaaaaa aaagg 1395
```

<210> 103

<211> 1181

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 998375.1

<220>

PA-0024 US

<221> unsure
<222> 775-796
<223> a, t, c, g, or other

<400> 103
ctagaattga agaaccaggg agaaccagat gggctgggca gatcaagcac aaacctgaga 60
tccaactgtc cctcttatgc gcctgggttt cttcactgga caccagtatg agtcaacttt 120
cctgtaaagc agaacaagca cgagattgga ccatgttaga ggaggaatgg tgtcatctcc 180
acttctggag agatccctgt ccccggtgtt gggggaagga ccaagcctca ctcccatgca 240
gagaagaggg tctgactgta actgcacctg tggagagatg gcgccgaaag cgaagacagg 300
aagctcctgc cctcctaaa gctgaagcca aagcgaaggc tttaaaggcc aagaaggcag 360
tggtgaaagg tgtccacagc cacaaaaaga agaagatccg cacgtcacc accttcggc 420
ggccgaagac actgcgactc cggagacagc ccaaataatcc tcggaagagc gctcccagga 480
gaaacaagct tgaccactat gctatcatca agtttccgct gaccactgag tctgccatga 540
agaagataga agacaacaac acacttgtgt tcatttgtga tgtaaaggcc aacaagcacc 600
agattaaaca ggctgtgaag aagctgtatg acattgatgt ggccaaggctc aacaccctga 660
ttcggcctga tggagagaag aaggcatatg ttcgactggc tcctgattac gatgctttgg 720
atgttgccaa caaaattggg atcatctaaa ctgagtccag ctgcctaatt ctgannnnnn 780
nnnnnnnnnn nnnnnntcac catatacatg cctgtctgtc aatttctggt tgggctggga 840
ggccacacac acacactgac atgacagggc ttgggcaaga ctctgttct acttatcctt 900
ttgaaatacc tcaccctgcc actccaccat gtatgatcat tccagagatc tttgtgacta 960
gagttagtgt cctaggaaaa ccagaactca gaacttgcc ccatggttga gtaacaagct 1020
gtacaagaac cctttttatc cctggaagag gctgtgtatg aaaccaatgc ccagggtttg 1080
aagggtgtta gcattccatt caggggagtg tggattggct ggctctctgg tagcattttg 1140
tcctcacaca cccatctact atgtccaacc ggtctgtctg c 1181

<210> 104
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.6

<400> 104
ctatggagat aaaaagatta aaaacagaaa caaaaaccga acagtgtgaa cagtgcaccc 60
tgagggtctcc ctgggggtccc ttgtaccctt caggagcctg tggatgaccc tgtgcaaaca 120
gttgggtgga agactgtgtc ttctgtgtgt tttggatgag taccagaact ttctgcgtct 180
gtttttcacc ctacccaatg cagtgcctac ctaaaaaatg cggtgaatag agcttcttcc 240
ttttacctcg ttgactgtct gagagcaaga tgggtcacca gcagctgtac tggagccacc 300
cgcgaaaatt cggccagggt tctcgtctct gtcgtgtctg ttcaaaccgg cacgggtctga 360
tcgggaaata tggcctcaat atgtgccgcc agtgtttccg tcagtacgcy aaggatatcg 420
gtttcattaa gttggactaa atgctcttcc ttcagaggat tatccggggc atctactcaa 480
tgaaaaacca tgataattct ttgtatataa aataaacatt tgaaaaaacc cttcaaaaaa 540
aaaaaaaaag 550

<210> 105
<211> 2970
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 902288.16

<220>
<221> unsure
<222> 2113-2202
<223> a, t, c, g, or other

<400> 105

```

attcctcaca ataaccagat agcctctgct ttctttttcc tttcttcgga atgagagact 60
caaccataat agaaagaatg gagaactatt aaccaccatt cttcagtggg ctgtgatttt 120
cagaggggaa tactaagaaa tgggttttcca tactggaacc caaaggtaaa gacactcaag 180
gacagacatt tttggcagag catagatgaa aatggcaagt tccctggctt tccttctgct 240
caactttcat gtctcactct tcttggtcca gctgctcact ccttgctcag ctcagttttc 300
tgtgcttga cctctgggc ccctcctggc catggtgggt gaagacgctg atctgccctg 360
tcacctgttc ccgaccatga gtgcagagac catggagctg aggtgggtga gttccagcct 420
aaggcaggtg gtgaacgtgt atgcagatgg aaaggaaagt gaagacaggc agagtgcacc 480
gtatcgaggg agaacttcga ttctgcggga tggcatcact gcagggaagg ctgctctccg 540
aatacacaa gtcacagcct ctgacagtgg aaagtacttg tgttatttcc aagatgggtga 600
cttctacgaa aaagccttg tggagctgaa ggttgcagca ttgggttctg atcttcacat 660
tgaagtgaag gggttatgagg atggagggat ccatctggag tgcaggtcca ctggctggta 720
cccccaaccc caaataaagt ggagcgacac caagggagag aacatcccg ctgtggaagc 780
acctgtggtt gcagatggag tgggcctgta tgcagtagca gcctctgtga tcatgagagg 840
cagctctggt gggggtgtat cctgcatcat cagaaattcc ctctcggcc tggaaaagac 900
agccagcata tccatcgag accccttctt caggagcgcc cagccctgga tcgcgccct 960
ggcagggacc ctgcctatct cgttgctgct tctcgcagga gccagttact tcttgaggag 1020
acaacagaag gaaaaaattg ctctgtccag ggagacagaa agagagcgag agatgaaaga 1080
aatgggatac gctgcaacag agcaagaaat aagcctaaga gagaagctcc aggaggaact 1140
caagtggagg aaaatccagt acatggctcg tggagagaag tctttggcct atcatgaatg 1200
gaaaatggcc ctcttcaaac ctgcggatgt gattctggat ccagacacgg caaacgccat 1260
cctccttgtt tctgaggacc agaggagtgt gcagcgtgct gaagagccgc gggatctgcc 1320
agacaaccct gagagatttg aatggcgtaa ctgtgtcctt ggctgtgaaa acttcacatc 1380
agggagacat tactgggagg tggaaagtgg ggacagaaaa gagtggcata ttggggtatg 1440
tagtaagaac gtggagagga aaaaagggtg ggtcaaaatg acaccggaga acggatactg 1500
gactatgggc ctgactgat ggaataagta tgggctctc actgagccca gaaccaacct 1560
gaaacttcct gagcctccta ggaaagtgg gatcttctg gactatgaga ctggagagat 1620
ctcgttctat aatgccacag atggatctca tatctacacc tttccgcacg cctctttctc 1680
tgagcctcta tatcctgttt tcagaatttt gacctggag cccactgccc tgaccatttt 1740
cccaatacca aaagaagtag agagtcccc cgatcctgac ctagtgcctg atcattccct 1800
ggagacacca ctgaccccg gcttagctaa tgaaagtggg gagcctcagg ctgaagtaac 1860
atctctgctt ctccctgccc accctggagc tgaggtctcc ccttctgcaa caaccaatca 1920
gaaccataag ctacaggcac gcaactgaagc actttactga tattcattcc attattccat 1980
atgacagttg ttttgagttt cgtaccacct tattgtcccc ttatacagat aaggaaactg 2040
gggtgcagaa aggtgaatta actttacaaa gtagacatga caagtgaaca gcagagctgg 2100
gatctaaaca gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2160
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgtcgggt agtcatattt 2220
tgcaagtatg gaagctgagg cagggcaaca tgaagtaact tacataactc atacagtaat 2280
ttgtgcagtt gggagatgtt cagccttagt ccctggctaa ttgcctgttc ttttcagcc 2340
tgattttttt tcccacagga agagcccaca tgtagccctg aggtttcctt cccaggacag 2400
ctgcagggtg gagatcatt taagtgttg tggagttgac atccctattg actctttccc 2460
agctgatatc agagacttag acccagcact ccttgatta gctctgcaga gtgtcttgg 2520
tgagagaata acctcatagt accaacaatga catgtgactt ggaaagagac tagaggccac 2580
acttgataaa tcatggggca cagatatgtt cccaccaac aaatgtgata agtgattgtg 2640
cagccagagc cagccttcct tcaatcaagg ttccaggca gagcaaatac cctagagatt 2700
ctctgtgata taggaaattt ggatcaagga agctaaaaga attacaggga tgtttttaat 2760
cccactatgg actcagtcct ctggaaatag gtctgtccac tcttggtcat tgggtggatg 2820
taaaccataa ttcttttcaa ctgctgcctg ctagggaaaa ctgctcctca ttatcatcac 2880
tattattgct caccactgta tcccctctac ttggcaagtg gttgtcaagt tctagttgtt 2940
caataaatgt gttaataatg cttactctc 2970

```

<210> 106

<211> 5621

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 243902.5

<400> 106

```

tttcaggggc agagattggt ttatttttta tttatttttag aggttttacag taatcatagg 60
cctcatgggg tgcctcagat cacacgatgg aggcagctag acatgctgcc tgcattgtgag 120
cccaattctc tctccatttc aatttccttg tctctaaatc caagtataa aacttgcact 180
tccttctacc accccagggg catgaaaaag ttaggaaacc aaacgtatta cattttataa 240
ggtttgtttt ccactgcaag aagtgtggat gctatctata taaagtgaga ctccctacat 300
ttggaggggc aatttctctc ttgggaaact tgtgagaaga gctcttaggt tggctcctta 360
cactgatgaa acctctaatt aggtgtcaaa accacaaaca aaactataac acatgatggc 420
caaaacaaac ttattaaatg ctgataaaat cgttaagatg agtaggttga attggatcag 480
agggttttga ccatattgtg ctaacacact ggtgagtcac aatcccatgt gccatatatg 540
ttataagtac ttgctcacta ataattgtcc aaatttttta tttactatag ggaacatctg 600
ttggttttgc ccactctgct tccatttctc cattttctag taacgccccct cagtcttctt 660
ttggggaata ctcccatagc cctcttagt ccatgtgggt aagtgcactg ctcagccaca gagcatggga 780
tccatcccca ctcccatcct gagaatgggt aagtgcactg tcttctctcc tgatgcacaa aactgttgct 840
aactcaagtt tgcttcctaa ccagctccct tctccatggg caacatgtgg gaggggggtc tggagacag 900
cccagcaagc ggattctgct catgggttca tccagacaag ggacataacc tgtgccaggt 960
gcaggcagca ggattctgct ccagctcctc gagcgtccc ctccatgtga tgattcagaa 1020
atccaactga agacagctct cccagctgaa tggctcttag ggtcttgggc ctcatgatta 1080
accaggctc ctccgactc ctggctgcac tggtctctag agccaggaga ggacacactg gcttcttggc 1140
tctgtattca actagcagga agggaatgag agccaggaga tggtgctgcc cttgaaatcc 1200
ctgtaaatag ggatactttg gagatatagt gatgaatcct tctgaaggac cccttcacaa 1260
ctgcacttag gttagcattt gagaagctgc tgctgctaag gctgctgctg ctgctgccgc 1320
tgacagttac cgccgcgctg gctgctgctg ctgttgggtc gaggcgtcag taggtttctg tgcagcattg 1380
cgccgcgctg cagaaatccac acctagagaa cagaagacac agacacgtac gtctactacc cttgttagaa 1440
ggaagccttg gatcttcggt ggataacaag agtaatccac agacttaaaa catgagctca 1500
gatgccagcc aaggcgtgat taccactcct cctcctccca gcatgcctca caaagagaga 1560
tattttgacc gcatcaatga aaatgaccca gaatacatta gggagaggaa catgtctcct 1620
gatctacgac aagacttcaa catgatggag cagaggaaac gagttactca gatcctgcaa 1680
agtcctggcc agtggatttc tatttccaaa tgagtacatt tcttaatgga gaaattctaa 1740
gcctttcggg aagacttggg atgccttatt caagaacaga tgaagaaagg ccacaacca 1800
actggattac tagcattaca gcagattgca gattacatca tggccaattc tttctcgggt 1860
ttttcttcac ctctctcag tcttggcatg gtcacaccta tcaatgacct tcttgggtgca 1920
gatacatcct catatgtgaa gggagaaaaa cttactcgct gtaaaacttg cagcctgtac 1980
agactttagt acttgttttg atgggcacac ctggcaaaata cctatatctc agtaagaata 2040
agtaaggagc aagaccacat tataataatt cccagaggcc tatcttttcc tgaagtctaa 2100
gcctccaatt tggtagaagt caatataata ggagaagtgg ttgaccaggg aagtaaccaat 2160
ttgaaaattg accatacagg attcagtcct catgctgcaa tctattcaac acgtcctgat 2220
gttaagtgtg tgatacacat ccataccctt gcaacagcag ctgtatcctc catgaaatgt 2280
gggatccttc caatttctca agagtctct cttctgggag atgttgctta ttatgactac 2340
caagggtcac ttgaagaaca ggaggagaga attcaactgc agaaggttct gggaccaagt 2400
tgtaagggtg tggtagctag gaatcatggt gctgtgcaac ttggagaaac attagaggag 2460
gcttttcttc atatttttaa tgtgcaacta gctgtgaga ttcagggtgca ggccctagca 2520
gggtgcaggtg gagtagacaa tctccatgta ctggactttc agaagtataa agctttcact 2580
tacactgtag cagcgtctgg tggaggaggt gtgaatatgg gttcccatca aaaatggaag 2640
gttggcgaaa ttgagtttga agggcttatg aggactctgg acaacttggg gtatagaaca 2700
ggctatgctt acaggcatcc tctcattcga gagaagccta gggcacaaga gtgatgtgga 2760
aatccagca actgtgactg ctttttccct tgaagacgat acagtgccac tctctcctct 2820
caaatacatg gcacagaggg caacagcgtg atggctgaac tcaccaaata 2880
cttacatgaa agtgaatgtg cctgaggagt ctcggaacgg agaaaccagt ccccgaaaca 2940
aaatcacgtg gatgaaagca gaagactcat ctaaagttag tgggtggaaca cctatcaaaa 3000
ttgaagatcc aaatcagttt gttcctttta acacaaaccc gaatgaggta ctagaaaaga 3060
gaaataagat tcgggaacaa aatcgatatg acttgaaaaa agcaggacca caatctcagt 3120
tgcttgctgt aattgttgtg gataagccac cttctactat gcaatttgaa gatgatgatc 3180
atggccacc agctcctcct aacctttta gctcatctac agaaggagaa cttgaagagt 3240
ataagaggac aatcgaacgt aaacaacaag gcctagaaga aaacatgag ctgttttcca 3300
agagcttcat ctccatggaa gtgcctgtca tggtagtaaa tggcaaggat gatatgcatg 3360
atgttgaaga tgagcttgct aagcgagtga gtaggttaag cacaagtaca accatagaaa 3420
acatcgagat tactattaag tctccagaga aaatcgaaga agtctgttca cctgaaggct 3480
ccccttcaaa atcgccatcc aagaaaaaga agaaattccg cactccttct tttctgaaaa 3540
agaacaaaaa aaagggaaaa gttgaggcct aaataaagtc tttttataat tattattata 3600

```

```

acaatgtgac attgcacatc taaataccac atttaagttg atcattaata tgcaatggta 3660
gatcagattg ggggatgtag caaactggac tttaagaact ggaaagaggt tttaaaaaag 3720
aaaaactttc agattcatct ctcatTTTTat atgtccagaa atggcTTTga attttaagca 3780
attactagtt ttaattagct ctgccctcat gaagtattat tataattcac cataaacagc 3840
tatctgtctg aattacttca ggcttctctc ataatatctg ttgaaaagaa attgccagtg 3900
agcaagtgag aatttttatt tctcaatacc tgcttcactt gataatcata ttataatttt 3960
ttatcatgat tattgactat atttttggag tcccatgtgt tcagtgggca ttaacagaat 4020
gctttaaaaa cttctaagac aagaatctat agcattagta tacactggca cataattttt 4080
taaaaagttt taagaaaaga ttcatTTTgga attttattca cagtataaaa tttcttcacc 4140
tgaagtaact ttgtttgcc aaaaagttgt tttaataaac tataattttt gaaaacttcc 4200
ttttttatta gtttagaaag ccccttattt ttcaacaaag gggattttgt acacataaca 4260
tgggttattt agtttaactc tggcaaaaaa aaaaaaaat ttgtatgtt gatgtttgta 4320
taccgttcag tataaaagtg tctaagcat attagccaat cttttcacag tagagcatac 4380
ttaaggctgc ttggtactga gtatacttaa atataactcc agaatccagg gacttggtgt 4440
taaaacagga ttagagcatg taaaggtaaa tctagattca tatttgaatc ttaaactgta 4500
tttttctctt agtattgcta atgagtaaag aaaagtctca taaggtagcc aaatgaaaaa 4560
gaatgaaagg gaaagtgaag aattaagggg acaaaagatg ggatgtgaaa agaagaattc 4620
tagtttgatg gtgactcata ttcacgatag gatacaaaag gtgatttgtt ggaaacatgt 4680
cccaaatttg taaaattctg cttctctgcc aaaagcaatg tctttcttgg ttgatatttg 4740
agttttaaaa gggctcaaatc tttctaattt ttgtatctt tagagggcag cactagaaga 4800
aatcagcagg tctaattcca ccagtaagaa aactaccact tcttgatttt tacagattta 4860
aaaaaatctt ttcagtgaac tttcttttta atgtaaatac aaattttaaac ctaggcttaa 4920
tataggcgtt tcccccttca cccaagtgat gtcacagttc gatgcaaaat caatgatcca 4980
gaatgatcgt gggtaaaaat aactcaaagt gttctttaag ggtgagttgg catgcaaaaa 5040
attacatttg ttacagtgtg ttttggagct ggctctgttt gtgtgcatac gataatgcag 5100
agttgagcca gagcctggaa atgtcattct agatctcact aactactgga atcagtgttt 5160
taatctcttg gtggaaactt tcagttgctt aactctctat tggaagattt ttttaatgtt 5220
ctacatcatt tatgttgtat tacaatgtat gtagaaatag taacctgtga actatgcttt 5280
tccataactt tttaaaaata tatatatcta taatgaatgca atgtgcataa atatttttta 5340
aacataacag tgaactattg caccctttgc aattgcctct atttacttgc tttggcataa 5400
agaatgagcc aatgaacctc tgtgtcctgt ggaaaaatgt ataaatgtta tctgatattg 5460
ctcttagatg taatgctaata taatgttaaa tcacaaataa acagtatttt aaatatacgg 5520
acttgatca tgaggtttcc attcacaggt gggtacttag cctattcatg gtctgttgag 5580
ttttataactt cagtgaact tggtaaagta ttgatgtctt t 5621

```

<210> 107

<211> 5129

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1000186.8

<400> 107

```

agcaaccctc taacactcct ccccatcctc tccctctgtc cctctgtccc tctgaccctg 60
cactgtccca gcaccatggg acccacctca ggtcccagcc tgctgtcctt gctactaacc 120
cacctcccc tggtctctgg gagtcccatg tactctatca tcaccccca catcttgagg 180
ctggagagcg aggagaccat ggtgctggag ccccacgacg cgcaagggga tgttccagtc 240
actgttactg tccacgactt cccaggcaaa aaactagtgc tgtccagtga gaagactgtg 300
ctgaccctcg ccaccaacca catgggcaac gtcaccttca cgatcccagc caacagggag 360
ttcaagtcag aaaaggggag caacaagtgc gtgaccgtgc aggccacctt cgggacccaa 420
gtggtggaga aggtggtgct ggtcagcctg cagagcgggt acctcttcat ccagacagac 480
aagaccatct acacccttgg ctccacagtt ctctatcgga tcttcaccgt caaccacaag 540
ctgctaccog tgggcccggac ggtcatgttc aacattgaga acccggaagg catcccggtc 600
aagcaggact ccttgtcttc tcagaaccag cttggcgtct tgcccttgtc ttgggacatt 660
ccggaactcg tcaacatggg ccagtggag atccgagcct actatgaaaa ctaccacag 720
caggtcttct ccactgagtt tgaggtgaag gagtacgtgc tgcccagttt cgaggtcata 780
gtggagccta cagagaaatt ctactacatc tataacgaga agggcctgga ggtcaccatc 840
accgccaggt tctctacgg gaagaaagtg gagggaaact cctttgtcat cttcgggatc 900
caggatggcg aacagaggat ttccctgcct gaatccctca agcgcattcc gattgaggat 960

```

ggctcggggg	aggtttgtgct	gagccggaag	gtactgtctgg	acgggggtgca	gaacccccga	1020
gcagaagacc	tggtggggaa	gtctttgtac	gtgtctgcc	ccgtcatctt	gcactcaggc	1080
agtgcacatg	tgcaggcaga	gcgcagcggg	atccccatcg	tgacctctcc	ctaccagatc	1140
cacttcacca	agacacccaa	gtacttcaaa	ccaggaatgc	cctttgacct	catggtgttc	1200
gtgacgaacc	ctgatggctc	tccagcctac	cgagtccccg	tggcagtcca	gggcgaggac	1260
actgtgcagt	ctctaaccce	gggagatggc	gtggccaaac	tcagcatcaa	cacacacccc	1320
agccagaagc	ccttgagcat	cacggtgcgc	acgaagaagc	aggagctctc	ggaggcagag	1380
caggctacca	ggaccatgca	ggctctgccc	tacagcaccg	tgggcaactc	caacaattac	1440
ctgcacatct	cagtgtctacg	tacagagctc	agaccggggg	agaccctcaa	cgtcaacttc	1500
ctcctgcgaa	tggaccgcgc	ccacgaggcc	aagatccgct	actacaccta	cctgatcatg	1560
aacaagggga	ggctgttgaa	ggcgggacgc	caggtgcgag	agccccggcca	ggacctggtg	1620
gtgctgcccc	tgctccatcac	caccgacttc	atcccttctc	tccgcctggt	ggcgactact	1680
acgctgatcg	gtgccagcgg	ccagagggag	gtggtggccg	actccgtgtg	ggtggacgtc	1740
aaggactcct	gcgtgggctc	gctggtggta	aaaagcggcc	agtcagaaga	ccggcagcct	1800
gtacctgggc	agcagatgac	cctgaagata	gaggggtgacc	acgggggccc	ggtggtactg	1860
gtggccgtgg	acaagggcgt	gttcgtgctg	aataagaaga	acaaactgac	acagagtaag	1920
atctgggacg	tggtggagaa	ggcagacatc	ggctgcaccc	cgggcagtgg	gaaggattac	1980
gccggtgtct	tctccgacgc	agggctgacc	tccacgagca	gcagtggcca	gcagaccgcc	2040
cagaggccag	aacttcagtg	cccgcagcca	ggcggccgcc	gacgcccgtc	cgtgcagctc	2100
acggagaagc	gaatggacaa	agtcggcaag	taccccaagg	agctgcgcaa	gtgctgcgag	2160
gacggcatgc	gggagaaccc	catgaggttc	tctgtccagc	gccggacccg	tttcatctcc	2220
ctgggcgagg	cgtgcaagaa	ggtcttctct	gactgctgca	actacatcac	agagctgcgg	2280
cggcagcacg	cgcgggccag	ccacctgggc	ctggccagga	gtaacctgga	tgaggacatc	2340
attgcagaag	agaacatcgt	ttcccgaagt	gagttcccag	agagctggct	gtggaactgt	2400
gaggacttga	aagagccacc	gaaaaatgga	atctctacga	agctcatgaa	tatatatttg	2460
aaagactcca	tcaccacgtg	ggagattctg	gctgtcagca	tgtcggacaa	gaaagggatc	2520
tgtgtggcag	accccttcga	ggtcacagta	atgcaggact	tcttcatcga	cctgcggcta	2580
ccctactctg	ttgttcgaaa	cgagcaggtg	gaaatccgag	ccgttctcta	caattaccgg	2640
cagaaccaag	agctcaaggt	gaggggtgaa	ctactccaca	atccagcctt	ctgcagcctg	2700
gccaacacca	agaggcgtca	ccagcagacc	gtaaccatcc	cccccaagtc	ctcgttgttc	2760
gttccatatt	tcatcgtgcc	gctaaagacc	ggcctgcagg	aagtggaaag	caaggctgcc	2820
gtctaccatc	atttcatcag	tgacgggtgt	aggaagtccc	tgaaggctgt	gccggaagga	2880
atcagaatga	acaaaactgt	ggctgttcgc	accctggatc	cagaacgcct	gggccgtgaa	2940
ggagtgcaga	aagaggacat	cccacctgca	gacctcagtg	accaagtccc	ggacaccgag	3000
tctgagacca	gaattctcct	gcaagggacc	ccagtggccc	agatgacaga	ggatgccgtc	3060
gacgcggaac	ggctgaagca	cctcatttgt	acccccctcg	gctgcgggga	acagaacatg	3120
atcggcatga	cgcccacggt	catcgctgtg	cattacctgg	atgaaacgga	gcagtgggag	3180
aagttcggcc	tagagaagcg	gcagggggcc	ttggagctca	tcaagaaggg	gtacaccagc	3240
cagctggcct	tcagacaacc	cagctctgcc	tttgccgctc	tcgtgaaacg	ggcaccacag	3300
acctggctga	ccgcctacgt	ggtcaaggte	ttctctctgg	ctgtcaacct	catcgccatc	3360
gactcccaag	tcctctgcgg	ggctgttaaa	tggtgatcc	tggagaagca	gaagcccagc	3420
ggggtcttcc	aggaggatgc	gcccgtgata	caccaagaaa	tgattggtgg	attacggaac	3480
aacaacgaga	aagacaagaa	cctcacggcc	tttgttctca	tctcgctgca	ggaggctaaa	3540
gatattttgc	aggagcaggt	caacagcctg	ccaggcagca	tcactaaagc	aggagacttc	3600
cttgaagcca	actacatgaa	cctacagaga	tcctacactg	tggccattgc	tggctatgct	3660
ctggcccaga	tgggcaggct	gaaggggcct	cttcttaaca	aatttctgac	cacagccaaa	3720
gataagaacc	gctgggagga	ccctggtaag	cagctctaca	acgtggaggc	cacatcctat	3780
gccctcttgg	ccctactgca	gctaaaagac	tttgactttg	tgctcccgct	cgtgcgttgg	3840
ctcaatgaac	agagatacta	cggtggtggc	tatggctcta	cccaggccac	cttcatgggt	3900
ttccaagcct	tggctcaata	ccaaaaggac	gcccctgacc	accagggaact	gaaccttgat	3960
gtgtccctcc	aactgcccag	ccgcagctcc	aagatcaccc	accgtatcca	ctgggaatct	4020
gccagcctcc	tgcatcaga	agagaccaag	gaaaatgagg	gtttcacagt	cacagctgaa	4080
ggaaaaggcc	aaggcacctt	gtcgggtggt	acaatgtacc	atgctaaggc	caaagatcaa	4140
ctcacctgta	ataaattcga	cctcaaggte	accataaaaac	cagcaccgga	aacagaaaag	4200
aggcctcagg	atgccagaa	cactatgata	cttgagatct	gtaccaggta	ccggggagac	4260
caggatgcca	ctatgtctat	attggacata	tccatgatga	ctggctttgc	tccagacaca	4320
gatgacctga	agcagctggc	caatggtggt	gacagataca	tctccaagta	tgagctggac	4380
aaagccttct	ccgataggaa	caccctcatc	atctacctgg	acaaggctct	acactctgag	4440
gatgactgtc	tagctttcaa	agttcaccaa	tactttaatg	tagagcttat	ccagcctgga	4500
gcagtcaagg	tctacgccta	ttacaacctg	gaggaaagct	gtacccgggt	ctaccatccg	4560
gaaaaggagg	atggaaagct	gaacaagctc	tgcgctgatg	aactgtgccg	ctgtgctgag	4620

PA-0024 US

gagaattgct	tcatacaaaa	gtcggatgac	aaggtcaccc	tggaagaacg	gctggacaag	4680
gcctgtgagc	caggagtggg	ctatgtgtac	aagacccgac	tggtcaaggt	tcagctgtcc	4740
aatgactttg	acgagtacat	catggccatt	gagcagacca	tcaagtcagg	ctcggatgag	4800
gtgcagggtg	gacagcagcg	cacgttcac	agcccatca	agtgcagaga	agccctgaag	4860
ctggaggaga	agaaacacta	cctcatgtgg	ggtctctcct	ccgatttctg	gggagagaag	4920
cccaacctca	gctacatcat	cggaaggac	acttgggtgg	agcactggcc	tgaggaggac	4980
gaatgccaa	acgaagagaa	ccagaaacaa	tgccaggacc	tcggcgctt	caccgagagc	5040
atggttgtct	ttgggtgccc	caactgacca	caccccccatt	ccccactcc	agataaagct	5100
tcagttatat	ctcaaaaaaa	aaaaaaagg				5129

<210> 108

<211> 2681

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 986123.32

<400> 108

acgcagccgt	tcccaccacc	cacaccacc	gcgcccttcg	ttcgccctct	ctccgggagc	60
cagtcgcgcg	caccgcgcgc	gccaggcca	tcgccaccct	ccgcagccat	gtccaccagg	120
tccgtgtcct	cgctctcta	ccgcaggatg	ttcggcgccc	cgggcacccg	gagccggcgc	180
agctccagcg	ggagctacgt	gactacgtcc	acccgcacct	acagcctggg	cagcgcgctg	240
cgccccagca	ccagccgcag	cctctacgcc	tcgtccccgg	ggcggcggtg	atgccacgcg	300
ctcctctgcc	gtgcgcctgc	ggagagcgtg	cccgggggtg	ggctcctgca	ggactcgggtg	360
gacttctcgc	tgggcgacgc	catcaacacc	gagttcaaga	acaccgcac	caacgagaag	420
gtggagctgc	aggagctgaa	tgaccgcttc	gccaaactaca	tcgacaaggt	gcgcttcctg	480
gagcagcaga	ataagatcct	gctggccgag	ctcgagcagc	tcaagggcca	aggcaagtgc	540
cgcctggggg	acctctacga	ggaggagatg	cgggagtgcg	ccggcagggtg	gaccagctaa	600
ccaacgacaa	agccccgcgc	gaggtggagc	gcgacaacct	ggccgaggac	atcatgcgcc	660
tccggggagaa	attgcaggag	gagatgttca	gagagaggaa	gccgaaaaca	ccctgcaatc	720
tttcagacag	gatgttgaca	atgcgtctct	ggcacgtctt	gaccttgaa	gcaaagtggg	780
atctttggca	agaagagatt	gcctttttga	agaaactcca	cgaagaggaa	atccaggagc	840
tgcaggctca	gattcaggaa	cagcatgtcc	aaatcgatgt	ggatgtttcc	aagcctgacc	900
tcacggctgc	cctgcgtgac	atacgtcac	aatatgaaag	tgtgggctgc	caagaacctg	960
caggagggca	gaagaatggt	acaaatccaa	gtttgctgac	ctctctgagg	gctgccaacc	1020
ggaacaatga	cgccctgcgc	cagggcaaa	caggagtcca	ctgagtaccg	gagacagggtg	1080
cagtcctca	cctgtgaagt	ggatgccctt	aaaggaaacca	atgagtcctt	ggaacgccag	1140
atgcgtgaaa	tggaagagaa	ctttgccgtt	gaagctgcta	actaccaaga	cactattggc	1200
cgcctgcagg	atgagattca	gaatatgaag	gaggaaatgg	ctcgtcacct	tcgtgaatac	1260
caagacctgc	tcaatgttaa	gatggccctt	gcatttgaga	ttgccacctc	caggaagctg	1320
ctggaaggct	aggagcagc	gatttctctg	cctcttccaa	acttttcttc	cctgaacctg	1380
agggaaacta	atctggattc	actccctctg	gttgataccc	actcaaaaag	gacacttctg	1440
attaagacgg	ttgaaactag	agatggacag	gttatcaacg	aaacttctca	gcatacagat	1500
gaccttgaa	aaaaattgca	cacactcagt	gcagcaatat	attaccagca	agaataaaaa	1560
agaaatccat	atcttaaaga	aacagctttc	aagtgccttt	ctgcagtttt	tcaggagcgc	1620
aagatagatt	tggaatagga	ataagctcta	gtttcttaaca	accgacactc	ctacaagatt	1680
tagaaaaaag	tttacaacat	aatctagttt	acagaaaaat	cttgtgctag	aatacctttt	1740
aaaaagtatt	ctagcacaag	atttttctgt	aaactagatt	atgtttgtaa	cttttttcta	1800
aatctttag	gagtgtcggt	tgtaagaac	tagagcttat	tcctattcca	aatctatctt	1860
gcgctcctga	aaaactgcag	aaaggcactt	gaaagctgtt	tctttaagat	atgaatttct	1920
tttttattct	tgctggtaat	atattgctgc	actgagtgtg	tgcaattttt	attcaaggte	1980
atcgtgatgc	tgagaagttt	cgttgataac	ctgtccatct	ctagtttcaa	ccgtcttaac	2040
cagaagtgtc	ctttttgagt	gggtatcaac	cagagggagt	gaatccagat	tagtttccct	2100
caggttcagg	gaggaaaagt	ttggaagagg	cagagaaaac	ctgctctcct	cgcttccag	2160
cagcttctctg	taggtggcaa	tctcaatgtc	aagggccatc	ttaacattga	gcaggctctg	2220
gtattcacga	aggtgacgag	ccatttccct	cttcataatc	tgaatctcat	cctgcaggcg	2280
gccaatagtg	tccttggtag	ttagcagctt	caaacggcaa	agttctcttc	ccatttcaac	2340
gcactctggc	ttcccaggga	cctcaattgg	gttcccttta	tagggcatcc	acttcacaag	2400
gtgaggggct	gcacgtgtct	ccggtactca	gtggactcct	gctttgccc	gcgcaggggc	2460

PA-0024 US

tcattgttcc	ggttggcagc	ctcagagagg	tcaggcttgg	aaacatccac	atcgaatttg	2520
gaacatgctg	ttcctgaatc	tgagcctgca	gctcctggat	ttcctcttcg	tggagtttct	2580
tcaaaaaggc	aatctcttct	tgcaaagatt	ccactttgcg	ttcaaggcca	agacgtgcc	2640
gagacgcatt	gtcaacatcc	tgtctgaaag	attgcagggt	g		2681

<210> 109

<211> 4792

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 369213.15

<400> 109

agggattcta	tttagccgc	caggaattaa	ccttgactat	aaataggcca	tcaatgacct	60
ttccagagaa	tggtcagaga	cctcaacttt	gttttagagat	cttgtgtggg	tggaacttcc	120
tgtttgca	cagagcagca	taaagcccag	ttgctttggg	aagtgtttgg	gaccagatgg	180
attgtaggga	gtagggtaca	atacagtcgt	ttctctcca	gctccttctt	tctgcaacat	240
ggggaagaac	aaactccttc	atccaagtct	ggttcttctc	ctcttggtcc	tctgcccac	300
agacgcctca	gtctctggaa	aaccgcagta	tatggttctg	gtcccctccc	tgctccacac	360
tgagaccact	gagaagggct	gtgtccttct	gagctacctg	aatgagacag	tgactgtaag	420
tgcttccttg	gagtcgttca	ggggaacacg	gagcctcttc	actgacctgg	aggcggagaa	480
tgacgtactc	cactgtgtcg	ccttcgctgt	cccaaagtct	tcattccaatg	aggaagtaat	540
gttctcact	gtccaagtga	aaggaccaac	ccaagaattt	aagaagcgga	ccacagtgat	600
ggtaagaac	gaggacagtc	tggtctttgt	ccagacagac	aaatcaatct	acaaaccagg	660
gcagacagtg	aaatttcgtg	ttgtctccat	ggatgaaaac	tttcaccccc	tgaatgagtt	720
gattccacta	gtatacattc	aggatcccaa	aggaaatcgc	atcgcaaat	ggcagagttt	780
ccagttagag	ggtggcctca	agcaattttc	ttttcccttc	tcattcagagc	cccttcaccg	840
gctcctacaa	ggtggtggtg	cagaagaaat	cagggtggaag	gacagagcac	cctttcaccg	900
tggaggaatt	tggtcttccc	aagtttgaag	tacaagtaac	agtgcctaaag	ataattcacca	960
tcttggaaga	agagatgaat	gtatcagtgt	gtggcctata	cacatatggg	aagcctgtcc	1020
ctggacatgt	gactgtgagc	atttgagaa	agtatagtga	cgcttccgac	tgccacgggtg	1080
aagattcaca	ggctttctgt	gagaaattca	gtggacagct	aaacagccat	ggctgcttct	1140
atcagcaagt	aaaaaccaag	gtcttccagc	tgaagaggaa	ggagtatgaa	atgaaacttc	1200
acatgaggc	ccagatccaa	gaagaaggaa	cagtgggtgga	attgactgga	aggcagtcga	1260
gtgaaatcac	aagaaccata	accaaactct	catttgtgaa	agtggactca	cactttcgac	1320
agggaattcc	cttctttggg	cagggtgcgc	tagtagatgg	gaaaggcgctc	cctataccaa	1380
ataaagtc	attcatcaga	ggaaatgaag	caaactatta	ctccaatgct	accacggatg	1440
agcatggcct	tgtacagttc	tctatcaaca	ccaccaatgt	tatgggtacc	tctcttactg	1500
ttagggta	ttacaaggat	cgtagtccct	gttacggcta	ccagtgggtg	tcagaagaac	1560
acgaagaggc	acatcacact	gcttatcttg	tggtctcccc	aagcaagagc	tttgtccacc	1620
ttgagcccat	gtctcatgaa	ctaccctgtg	gcataactca	gacagtccag	gcacattata	1680
ttctgaatgg	aggcaccttg	ctggggctga	agaagctctc	cttctattat	ctgataatgg	1740
caaagggagg	cattgtccga	actgggactc	atggactgct	tgtgaagcag	gaagacatga	1800
aggggccattt	ttccatctca	atccctgtga	agtcagacat	tgctcctgtc	gctcggttgc	1860
tcattctatgc	tgttttacct	accggggagc	tgattgggga	ttctgcaaaa	tatgatgttg	1920
aaaattgtct	ggccaacaag	gtggatttga	gcttcagccc	atcacaaagt	ctcccagcct	1980
cacacgcccc	cctgcgagtc	acagcggctc	ctcagtccgt	ctgcgccttc	cgtgtctgtg	2040
accaaagcgt	gctgctcatg	aagcctgatg	ctgagctctc	ggcgtcctcg	gtttacaacc	2100
tgctaccaga	aaaggacctc	actggcttcc	ctgggccttt	gaatgaccag	gacgatgaag	2160
actgcatcaa	tcgtcataat	gtctatatta	atggaatcac	atatactcca	gtatcaagta	2220
caaataaaaa	ggatatgtac	agcttccctag	aggacatggg	cttaaaggca	ttcaccaact	2280
caaagattcg	taaaccctaa	atgtgtccac	agcttcaaca	gtatgaaatg	catggacctg	2340
aagggtctacg	tgtaggtttt	tatgagtcag	atgtaatggg	aagaggccat	gcacgcctgg	2400
tgcattgtga	agagcctcac	acggagaccg	tacgaaagta	cttccttgag	acatggatct	2460
gggatttgg	ggtggtaaac	tcagcagggtg	tggctgaggt	aggagtaaca	gtccctgaca	2520
ccatcaccga	gtggaaggca	ggggccttct	gcctgtctga	agatgctgga	cttggtatct	2580
cttccactgc	ctctctccga	gccttccagc	ccttctttgt	ggagctcaca	atgccttact	2640
ctgtgattcg	tggagaggcc	ttcacactca	aggccacggg	cctaaactac	cttcccaaat	2700
gcattccgggt	cagtgtgcag	ctggaagcct	ctccgccttc	cctagctgtc	ccagtggaga	2760

```

aggaacaagc gcctcactgc atctgtgcaa acggggcggca aactgtgtcc tgggcagtaa 2820
ccccaaagtc attaggaaat gtgaatttca ctgtgagcgc agaggcacta gagtctcaag 2880
agctgtgtgg gactgagggtg ccttcagttc ctgaacacgg aaggaaagac acagtcatca 2940
agcctctgtt ggttgaacct gaaggactag agaaggaaac aacattcaac tccctacttt 3000
gtccatcagg tggtagggtt tctgaagaat tatccctgaa actgccacca aatgtggtag 3060
aagaatctgc ccgagcttct gtctcagttt tgggagacat attaggctct gccatgcaaa 3120
acacacaaaa tcttctccag atgccctatg gctgtggaga gcagaatatg gtctctttt 3180
ctcctaakat ctatgtactg gattatctaa atgaaacaca gcagcttctt ccagagatca 3240
agtccaaggg cattggctat ctcaacactg gttaccagag acagttgaac taaaaacact 3300
atgatggctc ctacagcacc tttggggagc gatatggcag gaaccagggc aacacctggc 3360
tcacagcctt tgttctgaag actttttgcc aagctcgagc ctacatcttc atcgatgaag 3420
cacacattac ccaagccctc atatggctct cccagaggca gaaggacaat ggtgttttca 3480
ggagctctgg gtcactgtct aacaatgcca taaagggagg agtagaagat gaagtgaacc 3540
tctccgccta tatcaccatc gcccttctgg agattcctct cacagtcact caccctgttg 3600
tccgcaatgc cctgttttgc ctggagtcag cctggaagac agcacaagaa ggggaccatg 3660
gcagccatgt atataccaaa gcactgctgg cctatgcttt tgccctgggc aggttaaccag 3720
gacaagaggg aggaagtact caagtcactt aatgaggaag ctgtgaagaa agacaactct 3780
gtccatttgg agcgccctca gaaaccaag gcaccagtgg ggcattttta cgaaccccag 3840
gtccctctct ctgagggtga gatgacatcc tatgtgtctc tcgcttatct cacggcccag 3900
ccagcccaaa cctcggagga cctgacctct gcaaccaaca tcgtgaagtg gatcacgaag 3960
cagcagaatg cccagggcgg tttctctctc acccaggaca cagtgggtgg tctccatgct 4020
ctgtccaaat atggagcagc cacattttacc aggactggga aggctgcaca ggtgactatc 4080
cagtcttcag ggacattttc cagcaaattc caagtggaca acaacaaccg cctgttactg 4140
cagcaggtct cattgccaga gctgcctggg gaatacagca tgaaagtgc aggagaagga 4200
tgtgtctacc tccagcatc cttgaaatac aatattctcc cagaaaagga agagtcccc 4260
tttgctttag gagtgcagac tctgctcaa acttgtgatg aacccaaagc ccacaccagc 4320
ttccaaatct ccctaagtgt cagttacaca gggagccgct ctgctccaa catggcgatc 4380
gttgatgtga agatggtctc tggcttcatt cccctgaagc caacagtga aatgcttgaa 4440
agatctaacc atgtgagccg gacagaagtc agcagcaacc atgtcttgat ttaccttgat 4500
aaggtgtcaa atcagacact gagcttgttc ttcacggttc tgcaagatgt cccagtaaga 4560
gatctgaaac cagccatagt gaaagtctat gattactacg agacggatga gtttgcaatt 4620
gctgagtaca atgctccttg cagcaaagat cttggaaatg cttgaagacc acaaggctga 4680
aaagtgtttt gctggagtcc tgttctcaga gctccacaga agacacgtgt ttttgtatct 4740
ttaaagactt gatgaataaa cactttttct ggtcaaaaaa aaagaaaaaa ag 4792

```

<210> 110

<211> 2041

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 216189.2

<220>

<221> unsure

<222> 109-141

<223> a, t, c, g, or other

<400> 110

```

agccaatcag gcgtcgttgc tacctgaaca agatcactca aggtgaagga taatctacta 60
ataccagcac tttgaatgaa aatttgtttc tctgccacaa actgaacann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nggtggggga gttgaaacct aattttgttg cgtacagcta 180
tgcagcttga aatccaagta gcactaaatt ttattatttc gtatttgtac aataagcttc 240
ccaggagacg tgtcaacatt tttggtgaag aacttgaaag acttcttaag aagaaatatg 300
aagggcactg gtatcctgaa aagccataca aaggatcggt gtttagatgt atacacatag 360
gggagaaaag ggacccagt attgaacaag catccaaaga gagtggtttg gacattgatg 420
atgttcgtgg caatctgcca caggatctta gtgtttggat cgacccattt gaggtttctt 480
accaaatttg tgaaaaggga ccagtgaagg tgctttacgt ggatgataat aatgaaaatg 540
gatgtgagtt ggataaggag atcaaaaaca gctttaaccc agaggcccag gtttttatgc 600
ccataagtga cccagcctca tcagtgtcca gctctccatc gcctcctttt ggtcactctg 660

```

```

ctgctgtaag ccctaccttc atgccccggt ccactcagcc tttaaccttt accactgcc 720
cttttgctgc caccaagttc ggctctacca aaatgaagaa tagtggccgt agcaacaagg 780
ttgcacgtac ttctcccatc aacctcggt tgaatgtgaa tgacctcttg aagcagaaag 840
ccatctcttc ctcaatgcac tctctgtatg ggcttggtt gggtagccag cagcagccac 900
agcaacagca gcagccagcc cagccgccac cccccccacc acaaacacag cagcaacaac 960
agcagaaaac ctctgctctt tctcctaata ccaaggaatt tatttttcct aatatgcagg 1020
gtcaaggtag tagtaccaat ggaatgttcc cagggtgacag ccccttaac ctcagtcttc 1080
tccagtacag taatgccttt gatgtgtttg cagcctatgg aggctcaat gagaagtctt 1140
ttgtagatgg cttgaatttt agcttaaata acatgcagta ttctaaccag caattccagc 1200
ctgttatggc taactaaaaa aaagaaaatg tatcgtacaa gttaaaatgc acggggccca 1260
agggggattt tttttttcac ctcttgaga atttttttt taaagcttat agtaaggata 1320
cattcaagct tgggttaaaaa aataataata aaacatgcat catttttcat ttgccacca 1380
agcacaaagt tattttatac tgactgtata ttttaaagta tactctcaga tatggcctct 1440
tacagtattt aagatatagc aaggacatgg ctgatttttt tttataaaaa ttggcactaa 1500
taagtgggtt tattggtctt ttctaattgt ataatttaatt tagtacaaa gtttgtaaaa 1560
tatcagagga tatatatata ttgtttctac gacatgggtat tgcatttata tctttttact 1620
acagtgatct gtgacagcag cagcttcatg ttgtattttt tttactgaaa ttgtaaaaata 1680
tccatcttaa agacatcaac tattctaaaa attgtgtaca ggatattcct ttagtggtgg 1740
aattaaaaatg tacgaatact tgctttttca aaaaaatgta ttttctgtta aaagttaaaa 1800
gatttttgct atatatattg gaagaaaaat gtaatcgtaa atattaattt tgtacctata 1860
ttgtgcaata cttgaaaaaa acggtataaa agtattttga gtcagtgtct tacatgttaa 1920
gagggactga aatagtttat attaaagttt tattaaaatt ctttaaaatt aaaaatgcct 1980
attgtctttg tttttaagtg ttttctgaag atcgacctct ggagttatta tgttgtaaat 2040
g 2041

```

<210> 111

<211> 3208

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 900146.4

<400> 111

```

tggctggaag agcaacagag ggctgggaaa gagcttctat atatacctca ggaggaaagg 60
catcccagag agttttgaag ttttcaaaga ctgggctctg ctgttaagaa gttgtactta 120
aagcggagga gctaagccac ctgccaaaat gtgcaaagga cttgcagctt tgccccactc 180
atgcctggaa agggccaagg agattaagat caagttggga attctcctcc agaagccaga 240
ctcagttggt gacctgttca ttccgtacaa tgagaagcca gagaaaccag ccaagaccca 300
gaaaacctcg ctggacgagg gccctgcagt ggcgtgatcc cctggacaaa ctctgcaga 360
acaactatgg acttgccagt ttcaaaagtt tccgtgaagtc tgaattcagt gaggaaaacc 420
ttgagttctg gattgctgtg gaggattaca agaagatcaa gtcccctgcc aagatggctg 480
agaaggcaaa gcaaatttat gaagaattca ttcaaacgga ggctcctaaa gaggtgaata 540
ttgaccactt cactaaggac atcacaatga agaacctggg ggaaccttcc ctgagcagct 600
ttgacatggc ccagaaaaga atccatgccc tgatggaaaa ggattctctg cctcgctttg 660
tgcgctctga gttttatcag gagttaatca agtagtaatt tagccaggct atgaaatcat 720
cctgtgagtt atttcctcca taataaccct gcatttccca ttaatctaca tatcttccca 780
cagcagcttt gctcagtgat acccacatgg gaaaaatccc aggggatggt gcttactctt 840
tttgcccaca ctgctttgga tacttatcta ctgtccgaag gccttctttc cccactcaat 900
tcttctgcc ctgttattaa ttaagatatc ttcagcttgt agtcagacac aatcagaatc 960
acagaaaaat cctgcctaag gcaaagaaat ataagacaag actatgatat caatgaatgt 1020
gggttaagta atagatttcc agctaaattg gtctaaaaaa gaatattaag tgtggacaga 1080
cctatttcaa aggagcttaa ttgatctcac ttgttttagt tctgatccag ggagatcacc 1140
cctctaatata tttctgaact tggttataaa aagttttataa gatttttatg aagcagccac 1200
tgtatgatata ttttaagcaaa tatgttattt aaaatatatga tcttccctt ggaccacctt 1260
catgttagtt gggatttata aataagagat acaaccatga atatatattg tttatacaaa 1320
atcaatctga acacaattca taaagatttc tcttttatac ctccctcact ggccccctcc 1380
acctgcccac agtcacccaaa ttctgtttta aatcaatgac ctaagatcaa caatgaagta 1440
ttttataaat gtatttatgc tgctagactg tgggtcaaat gtttccattt tcaaattatt 1500
tagaattctt atgagtttaa aatttgtaaa tttctaaatc caatcatgta aatgaaact 1560

```

gttgctccat	tggagtagtc	teccacctaa	atatcaagat	ggctatatgc	taaaaagaga	1620
aaatatgggc	aagtctaaaa	tggctaattg	tcctatgatg	ctattatcat	agactaatga	1680
catttatctt	caaaacacca	aattgtcttt	agaaaaatta	atgtgattac	aggtagaggc	1740
cttctagggtg	agacactttt	aaggtagact	gcatttttgc	gaaaaaaaa	aaaaaaagta	1800
atcttttagc	aaccccagta	ttccttcact	atctcgcttc	ctgcattagc	aaatttttact	1860
tacagtcaaa	agtgacagatt	tatactcctg	acgtgtctca	ttcacagcta	aataataggc	1920
cataggactt	ttggtagggt	taaactttta	attctgtatt	tcattgattat	aagtcttgct	1980
agaatttttt	ctaactcttt	gtagatttga	ttaaataatg	attcacagaa	tttagtaaca	2040
gaatcaaact	aagccatgta	tgagggtaat	cgagatgagg	atattaactc	aaaagaaata	2100
gggtgatttt	taaaggatta	ataaaattct	gaaatgttaa	gtagaagatt	acattgtcta	2160
gtcttgtatt	tcctccttct	gttgctctct	ttcattcaca	cactctcagt	ttctcatatt	2220
tgtagctcat	ttatttggtt	atttcctaag	aataattgaaa	gtgaagcaac	tatgtgactg	2280
tattcttcag	gtaaacactg	actgcgcttg	ttggattttc	cctatttttg	tgacttcaag	2340
aataatatgc	cctgctgaat	acatgccatt	tcacattctg	aaactgggta	gagtgggttg	2400
gtgttctgcc	aacaattgct	agtgggtgta	attcattcat	atttgccagt	attgctcact	2460
tcaaagaaac	tccttcatca	agcagtcacg	agctaggcca	gatcaacgct	acaatcatga	2520
agttctcatt	gcattgcaat	gtgtaggatt	gacaaggaac	tcagataaaa	atttccaggg	2580
tgcaacttcca	gaaccagctt	caacatattg	ctacattgct	cccaagttta	taaagtcca	2640
accctttact	ctctcataca	gccagaaatg	ttagaaatcc	aaaatcttgg	tgcatatttt	2700
tttcataaac	gctaaaacat	ttgaagaaac	aattttaatta	tttaaaattc	aagtatttta	2760
ttcacattat	ttgcaatate	caaatgttta	aaaattccca	gataattaac	tagctattac	2820
agatctcacc	tagagggttg	atgttatgaa	gactccagtg	gactgtactc	acaaattgac	2880
tggacaccct	atgaaagtgg	gtagacctct	cagcggaata	taagaagggc	ttttacctac	2940
agggcaggag	agggtcccat	gagagcagtt	ctgtggagat	ataaaaagaa	tggaagaagg	3000
aatgccttat	agtgatattg	tgacattata	tctatatatc	tacatatatc	tatctatcta	3060
tatctacatc	tatataatct	tacattttaa	attgtattcc	tacacatatt	agaaactctt	3120
ctaataaatg	aagtaaaaaa	attaaaaaga	tacaaatatt	ccagcccaa	atgagaatca	3180
aactattaaa	ttgttcagaa	tttctttg				3208

<210> 112

<211> 5773

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 109082.18

<400> 112

gctgcgatgc	agagtctgta	cgcgtttgat	gaggaggaga	cggagatgag	gaaccaagtc	60
gtggaagacc	tgaagacagc	cctccggaca	cagcctatga	ggtttgtgac	ccgcttcatt	120
gagctggagg	gcttgacctg	tctgctaaat	ttcctccgga	gcattggacca	cgccacctgt	180
gagagccgca	tccacacctc	actcattggc	tgcattcaaa	cattgatgaa	caactcccag	240
gggcgggcac	atgtgctggc	acagcctgag	gccattagta	ccatagccca	gagcctacgc	300
acagagaaca	gcaagaccaa	ggtggctgtg	ctggagatcc	tggtgtgctg	gtgcctcgtg	360
cctgggtggc	acaagaaggt	gctgcaggcc	atgctgcact	accagggtga	tgacgagag	420
cgaacccgct	tccagaccct	gctgaacgag	ctagaccgaa	gtctgggccc	gtaccgggat	480
gaagtgaatc	tgaaaacagc	catcatgtcc	ttcatcaatg	ctgtcctcaa	tgctggagct	540
ggagaggata	atctggagtt	ccgcctacat	ctacggtatg	aattcctgat	gctgggtata	600
cagcctgtga	ttgacaagct	ccggcaacat	gaaaatgcc	tcctggacaa	acatttagac	660
ttcttcgaga	tggtgcggaa	tgaggatgac	ctggagctag	ccaggaggtt	tgacatggtc	720
cacatcgaca	ccaagagtgc	ttcccagatg	tttgagttga	tcacaagaa	gctgaagtac	780
acggaggcct	accctgcct	gctctctgtg	ctgcaccact	gcctgcagat	gccctacaaa	840
cggaacgggtg	gctacttcca	gcagtggcag	ctcctggacc	gcattcctca	gcagattgtc	900
ctccaggatg	agcggggtgt	ggaccctgac	ctggtccct	tgagaaactt	caatgtcaag	960
aacatcgctca	acatgctcat	caacgagaat	gaagtgaaac	agtggcgaga	ccaggcagag	1020
aagttccgga	aagaacacat	ggagcttggtg	agcgtctgtg	agaggaagga	gcgggaatgc	1080
gagacaaaaga	cattggagaa	ggaagagatg	atgcggacgc	tgaacaaaat	gaaggacaag	1140
ctggccccggg	agtcccagga	gctgcgccag	gctcggggac	aagtggcaga	gctggtagcc	1200
cagctcagtg	aactctcaac	aggccctgta	tcttccccac	cacccctgg	gggcccactc	1260
accttgtctt	cctcatgac	aaccaatgac	ctgcctccac	ccctcctcc	tctgcccctt	1320

gcctgttgtc	cccccccccc	accaccaccc	cttccctccc	ggggaccccc	gactccccca	1380
ggtgccccac	cttgccctcg	catgggcctg	ccccccctc	aggaccacct	ccccagcagt	1440
gacgtcccac	tcaggaaaaa	gcgtgtcccc	cagccttctc	accacttgaa	gtccttcaac	1500
tgggtgaagc	tgaatgagga	gcgtgtccct	ggcaccgtat	ggaatgagat	tgatgacatg	1560
caggtatttc	ggatcctgga	cctagaggat	tttgaaaaaa	tgttttcagc	ctaccagagg	1620
caccaggagc	tgataactaa	tccttctcag	cagaaagagc	tgggctccac	tgaagacata	1680
tacctggctt	cccgcaaggt	caaagagctg	tcggtcattg	atggccggag	ggcccaaaac	1740
tgcatcatcc	ttctttccaa	gttgaagctt	tctaaccgag	agatccggca	ggccatcttg	1800
aagatggatg	agcaggagga	ccttgctaag	gacatgctgg	agcagctcct	caagttcatc	1860
ccagagaaga	gtgacattga	cctcctggag	gagcacaagc	atgaaattga	gcggatggcc	1920
cgtgctgacc	gcttccctta	tgaaatgagc	aggattgacc	actaccagca	gcgactgcaa	1980
gccctcttct	tcaagaagaa	attccaggag	cggctggctg	aggcaaagcc	caaagtggaa	2040
gccatcctgt	tggcctcccc	ggagctgggtc	cgcgaagagc	gtcttagaca	gatgctagag	2100
gtcatcctag	ccataggcaa	cttcatgaac	aaagggcagc	gtggggggcg	ctacgggttc	2160
cgggtggcca	gcctcaacaa	gattgctgac	accaagtcca	gcatcgacag	aaacatctct	2220
ctgctccatt	acctgatcat	gacccctggg	aagcattttc	ctgatattct	aaacatgcct	2280
tcagagctgc	aacatcttcc	agaagccgcc	aaagtcaacc	tagcagaact	ggagaaggag	2340
gtggccaacc	tcaggagggg	cctgagagcg	gtggaggtgg	agctggagta	tcagaggcgc	2400
caggtacggg	agcccagtga	caagtttgct	cctgtcatga	gcgacttcat	cacggtgtcc	2460
agcttcagct	tctccgagct	ggaggaccag	ctaaatgagg	ccaggggaca	gttcgcccaag	2520
gccttgatgc	acttcgggga	gcatgacagc	aagatgcagc	cagacgaatt	ctttggcatc	2580
tttgataacct	tcttgccagg	cttctcagag	gccccggcag	atctagaggc	catgaggagg	2640
aggaaggagg	aggaggagcg	gcgggcgcgc	atggaagcca	tgctgaagga	gcagagggaa	2700
cgtgagcggg	gcgagcggca	gcggaaggct	ctggtgcagc	gcagctcgct	ggaggaggga	2760
ggagagtctg	atgacctggg	gtcggccctg	cgctctgggg	aggtcttcga	caaggactta	2820
tgcaagctca	agcgcagccg	caagcgatca	gggagccagg	ccctggaagt	taccggggag	2880
cgggcaataa	accggctaaa	ttattgacct	ggggaactag	ccacacagga	ggccggggaga	2940
cagggactgg	tgagaatggg	gctgagtggg	ggagggtggg	atatttaaac	catttggtgc	3000
ttggtttaga	gccttgggct	gggtccctgg	atggggggct	gtgtgaggct	ggaccagggtg	3060
tctcccacag	cttaccttaa	ggggctcctc	ttactctccc	ttcacacgat	tccttctgtg	3120
ccctggcccc	aggtattatt	ctgaggctgc	cttggatggc	ctcaggccag	gtaaccccc	3180
gctgaagggg	ccctgctccc	catccccctc	catgggcacc	catgtgctgg	cacagaacag	3240
ttccagatct	agactggaga	ggtccacagc	cttgctccag	gttcctgtgt	agcacgggga	3300
gcaatgatgg	agggagcccc	tgagagggaa	tctgggtgag	gaatccagac	tccttctctc	3360
caaggggagg	ctcaacagaa	cattgacctg	ggggcaaaact	ttcctcttga	atgggaacag	3420
aggaggcatt	atatattcta	gttagatcag	ctctggtagg	ttccagagaa	cagtgcaatg	3480
tggaaggatg	atgcagggac	caaagccatc	aggacagagt	agcagtgtct	gtttcccatg	3540
tcacaagtcc	tctggcctct	ccctgcatgt	cttaagtatc	tttcccttcc	ttctctaccc	3600
tcacctccat	cctgtctact	aatccacagt	cctagaagac	tcaccttggg	tttccacagc	3660
tatggctcac	taccagggtc	ttgatgaatc	tggcgagggg	ctcaagacag	acctcatgca	3720
tcaccacacc	tcatgccttt	tgggcatctc	ccatgtcccc	atctcctgga	cacctggcca	3780
ttgttgtgaa	gccagcagtg	gacctcaaat	gttgccctgg	agtcccctac	agccccctag	3840
cagagggcag	cacttgaatg	cttagctcca	ttccatagtt	ctctacttca	tataaattgc	3900
tcaggccctc	ccaccccttc	tctaacacta	gcttcaaggc	agaagccaca	gcagcctctg	3960
tcagcctgc	aggtggccac	ttggaacctat	gtgtccactg	gcgttgggga	gttggttccct	4020
gagaggtctg	agggccagag	ctgccctcta	cattaacatg	ctgtctctaa	gggtggcccc	4080
tcctctcagg	cgttcagatg	gtgcgaacag	cagagcaggc	aagggaaact	ggggagatgg	4140
ggatggagga	ggaaggctga	tatcctctgg	ggagcacatc	acctgaaggt	gccaaggagg	4200
aaggctgaga	ggggggccac	cccatttctg	gtacccaatt	tggttcttca	gcccacttg	4260
caaggggttc	cttctgggtc	tcccatecac	tgccaccttc	cattttgtcc	atctcatgct	4320
ggccttgggtg	gatgggatgg	ctgtatctag	acaaaatttt	tctaaaactc	catcaaggct	4380
cttattcaat	accacgttcc	gagttggcct	ttcatcttct	ttgagactgg	ccctgcctaa	4440
cctctaccat	caatgagctc	ttggcccttc	tgccttcccc	tgtgtttctc	actttccaac	4500
ctaateccctg	gctcagggtt	attgccagtg	gagactgggtg	agctgggcct	actctcagct	4560
gcctatcttc	tgccctttcac	ttgcatccaa	ctcctggggc	tgggaccgta	gtagctcgcg	4620
gggggaagaa	acacagggtc	ggtgagccca	gcatgtgcgt	tggtttgagg	gggcgggcg	4680
tgtgtgtgtg	ttctgggtgg	agggatctga	gcaagtgcaa	gcctggctga	cacagggtgtg	4740
aagaggccat	cctggaaccc	aggtgagggc	aagatgaagg	cttcagggca	gaacagctgc	4800
agagagtttg	gctatatgca	tctgcagccc	caagagctcc	cactgcaaga	caagtgttgg	4860
ggaagatggg	aggttgtggg	tgaggcctct	aaaggtcctc	tcccaaactg	accaggctga	4920
tgtcaacctc	acccctcag	gggcagggaa	caggggaggg	ctccacaagc	gtgtctggca	4980

PA-0024 US

```
ttccccaccca ccatggaaga ctggatacgc acctggaaac aaaaggacta tggagctgt 5040
tcaagataca tttgatcttc agaaaagcag aatttggttc aactgttgac agaggacaca 5100
aatacgttgt tccagagctc agccttctca ctctaaaaga aagatatttt tctattttatt 5160
ttctacatct ggccagtggc tctggtgcta gatgccactg tagccagatc tccaacagtg 5220
ccttggacca tggactcata ctcaactgag taagaagggg ctggtgcccc gtcgggggtg 5280
ctgagctggt ccttaataag ttgtttcttg gtcttgcttt cttcatgccc tccccactgc 5340
tcctgccacc tttagataag tttctctagc taattttgtg gccaatgtaa aattcgatc 5400
caacctaaca aacacaacct tctcagcagc atttctcccc tgtgatggaa ataaataaag 5460
tgttttagggc agtgggagga gaaaattctc caggatgaatg gggaagggtc tgttccagcc 5520
tctccctact cccatcccat tccaccaaac tggggaaactg tgactatcta tctcccccca 5580
cttctaccag ggatgccttc acgccaagggc tgttctcacc agctgcctca gatgacaaat 5640
gaggctaatag gacataatct acagtgtcct ttttcacttg cacctttttt ataagaatat 5700
attgtaatac taaaaaatat taaattcata ccatccctta aaaaaaacia aaaggggggc 5760
gctctagact cga 5773
```

<210> 113
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1000189.1_

<220>
<221> unsure
<222> 84
<223> a, t, c, g, or other

```
<400> 113
gtcaacttcc cgctggtggt cggcctgcta ggctggcgcg gctataggga ctccggtgga 60
gattgcattg cgctgccgcg cggntcccg cgcaccagga caggtttatt tgtatctacc 120
ccgcttattt aaattaatta gagagagacc atagctgagc gggaggcgga tccccattaa 180
taaggctgta gaaaaccac ggtactgaga tcaggatgta tgtcagcagt tggactgaat 240
gcgtttcttg agaaaaacia aatgtactcc agagaatgga atcgtgatgt tcagtataga 300
ggcagagttc ggttacagct caaacaggaa gatggcagcc tctgtcttgt acagttccca 360
tcacgtaagt cgtgatgct gtacgtagca gaaatgatac ccaagctaaa aacaaggact 420
ca 422
```

<210> 114
<211> 5444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 087469.9

<220>
<221> unsure
<222> 4458-4769
<223> a, t, c, g, or other

```
<400> 114
ggggaggaag aaaggcgaag gcaaggcgaa ggggtggaga gtgatatgaa gagcgagaga 60
aaagagagga cagcggacga gcagatccgg tatctggaat cccggcgcc agaacgtggt 120
tttcgggaga gcaaaggctg tgtctacggc aggctgggga tatagcctct ctttccgatg 180
aaaagagaaa ggaagaatgg actacagcca ccaaactgcc ctagtcccat gtggacaaga 240
taaatacatt tccaaaaatg aacttctctt gcattctgaag acctacaact tgtactatga 300
aggccagaat ttacagctcc ggcaccggga ggaagaagac gagttcattg tggaggggct 360
cctgaacatc tcctgggggc tgcgcgggcc cattcgccctg cagatgcagg atgacaacga 420
```

```

acgcattcga cccctcccat cctcctcctc ctggcaactct ggctgtaacc tggggggtca 480
gggaaccact ctgaagcccc tgactgtgcc caaagttcag atctcagagg tggatgcccc 540
gccggagggt gaccagatgc caagctccac agactccagg ggctgaagc ccctgcagga 600
ggacacccca cagctgatgc gcacacgcag tgatgttggg gtgcgtcgcc gtggcaatgt 660
gaggacgcct agtgaccagc ggcgaaatcag acgccaccgc ttctccatca acggccattt 720
ctacaaccat aagacatccg tggtcacacc agcctatggc tctgtcacca acgtccgcat 780
caacagcacc atgaccaccc cacaggctct gaagctgctg ctcaacaaat ttaagattga 840
gaattcagca gaggagtgtg ccttgtaagt ggtccatacg agtggtgaga aacagaagct 900
gaaggccacc gattacccgc tgattgcccg aatcctccag ggcccatgtg agcagatctc 960
caaagtgttc ctaatggaga aggaccagggt ggaggaagtc acctacgacg tggcccagta 1020
tataaagttc gagatgccgg tacttaaaag cttcattcag aagctccagg aggaagaaga 1080
tcgggaagta aagaagctga tgcgcaagta caccgtgctc cggctaataga ttcgacagag 1140
gctggaggag atagccgaga cccagcaaac aatctgagcc atgagaacga ggggatctgg 1200
gcacccagg aaccgccatt gccataaga ccccaggaa gctaggcact ttctttccat 1260
ggaaacattt agacacaaac ctccccagct cgggccaagc catcatttgc tacctggagc 1320
tggatgtaga agtcagcaga cagctcccta tccctggacc cctgcctctc ttttttctgc 1380
tcacaaggac ttttgatttt agttataagg aggacccaaa atgtgtgtgt gtacatttgt 1440
tgtgcacaca tggtagctgt ccatgtgcct acctgatact ttcacatgta attaaattcc 1500
aggcaaccag cacaagagcc gtgagcttgg cacatgtgct gctcgtgagc agggaaatca 1560
gaggagccac tgatctgagt ggtatttagg ttgaaggaaa gatttctcct ctcaagtgcc 1620
agggagcagc cacacgtctg tctgtgttta gagagggaaag agggttctcc aggttcacca 1680
tttgggttgt ttatatgttg gtagaaatcc tccctgtatg cctagaagga tcagtgaatg 1740
taagagcctt ggaaattaac aaaataacag ccacataacc ttgcggcaag tctgatggaa 1800
agaaaaagat aaccatccg tggggtagat gcaataagct cactattttt tacactggaa 1860
acgttgattg ttttaaatga caaagacata tgtgatgttc tatgtggaaa cctgtgaaga 1920
gtggattctg cctccatctc tgccctccatg gctaccttta ggagacagag aagatcctgt 1980
gtgtttctct gtaccagct gacagcctgt ctctatggcg cttccttgag tggaaggaaa 2040
tgtctcaaga aacaaagatc tcgctggtgc gtacacagtg ctgaccagct agtatggcca 2100
gggcctggtg gcctggtggc caggaagttt caggttgaag ggaaatgtcg aggtcacctg 2160
cagatagcag aggtgccttg aacgcagccc atcttcattg catcaaaggt ctctctgcac 2220
ttgaagctgg ggcatgttt gcagtcaaga ccattctttc caacctctgg gttcttgcaa 2280
gttgccctca ccttgtgtgt ggagatgcat tccaagaatg aagcctcatc ttgctactga 2340
gtgtggggtt cagggaaagt ctttaggcca cctggtgaag gtgcatgggg aggatggagc 2400
ttctctcag ctctctgag cagccaccta tgtgatcttt aaatccaacc ccaatgggag 2460
aaaagggcaa gaacagtctg tgccctggga ctctatcag gaagcttgac aggcagctgg 2520
gcacagtgct agctgatctc gtttgaggag ggagacagat gcttggaact ggggtgcctgg 2580
ctatggagat tgaccaagca agatcaggag ccttgatag caggcgtctt tgagcctagc 2640
tggggtagag gcactgccc a tctctctctc acctctctc cacagaatgt ttgcagagct 2700
gggcagttga ggaaaggaca gcccttggtt ggtgcctcca aaggaaggtg gacttttttg 2760
gtggagacgt ttctgcccgt ggcaccctcc tgccccgat tcatacctat ggcttcttga 2820
gaaggctcac agctgtggtc ttaacgtaga ctgcagaaag atggcatgcg gcccctggca 2880
tttcgcaaag ggttttatag caagtctctc tctccatag ggacagcagc accagcctg 2940
tggggcatgg agtggaagcc cagaagggtc tctgcaagct gcacagaact ggggtaagaa 3000
gacaaagagt agccaccggg agaggcttcc tttgttacag ctgggaaaga acagttctgt 3060
gaatgcaaac acctcctgag ttttgcaatt gagaaaatga tttggagaac ttctctctctg 3120
gtaattttta ttttgaaagt tcagggcctt agttggcccc agtaattctc cttggaggac 3180
ttgggagaag aatttccaca aagcaaacta ctaaccacta gctcttattg gacagcgatt 3240
tctggcttat aagagttctc tttgatttgc actagcacta cgatagtgtt agatggggaa 3300
atactgcaac atgtccagtt ggccagatca ctttccaagg gagcgatact aaggcagact 3360
gagcttttta aagatgggag gtcaggaggt ggaagcgaga ggagatccca tctcacacaa 3420
cacacttcca cgtaatgcag accacacttt tccattttgt cctgcctctc tgagaggtca 3480
tttctcacgt cctaagaacc tgatcagaaa ttttggaagg gttctttgaa atagcagcag 3540
ttgaaacaga gacactttgc cacagtgtgg agcagatttt ctcactggta tcacatggte 3600
ttgcagtttt gaactcttcg accgatttgt gggagtttat gtaattgcgt gcaatgaacc 3660
tgaaattgtg taaaggacaa aagaccaggt tatagggttg ggtttttttt ccaacttgtg 3720
aaaagcagtt tagctgcac tgtctcccca ccacccccac cccgggaggg gcttatgtta 3780
caaggtgatc aagtgaagga aaaacctgag cctatctggc tgggatgggt gaattaagca 3840
caaggtcaca ttctctgtga tcacatgaga ggggaaggtg tgacttaaat ggcagggggt 3900
ggggattatc ttggggagag gctgaaaagc acaaaaagata gtcttccttg tacgtatttg 3960
tgaagaacgt gcacaaggct ggatggactt caacttgag ttgagttgag gcaagaggat 4020
ttctggatat tagtcaccca tctgcaagaa aatgctgag gcctcgggtc aagattttga 4080

```

tctgagacat	gctgatgctt	caaggagaaa	tattttcaca	atcctctctt	ccctcaccag	4140
aagagaacag	tactctctcc	tagaaacctc	taggtaaaca	cattttatcc	taatatcggt	4200
agcatataat	gcccccccc	aaaatatctg	ttttccatgc	aaaaaagtct	caacaagaag	4260
tctgtggagt	tgagtggtta	cttcaaagtg	tcaggagagt	gaagaaattg	gccacagaag	4320
agcaagaagc	tctcttaaga	aaaggggaatt	ctcttttaaag	aaaccaccac	caacaacaaa	4380
acaaccaaaa	accatgtttt	atgtcaaagc	tctgtagcac	agagaatgtg	gtgtcacaga	4440
tacatcgccg	agagaggnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	4500
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	4560
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	4620
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	4680
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	4740
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnna	agagaaattt	ctacatgaac	aaggcaattt	4800
cagtgtctta	cagcggccaa	accatgacgt	gaagaatgag	ataggagaca	ggagatcacc	4860
ataagcgtcc	ctgatatagc	agcacacatt	ttcacgtttc	cacttaaate	gttttgcaca	4920
aagtcttgct	tcgctcagat	gagatgagat	atgatttctt	agagatgtaa	aaataagaat	4980
gaatgtggcg	cccccttctt	ccagatgtaa	tagaaagctc	tgccctatca	caaggggggt	5040
gttgaagcgc	cccttgtggt	ttaactgtat	ttaactgagc	acaagatgca	caagctgtgg	5100
tgggaaaccc	tcagtttacc	tttgagctct	tcctgcaga	tcgcagacct	gtttccaggc	5160
tgatgtttct	ggtgtgtaat	tgctagcgtt	tctgaagggt	tttccaatt	gttttagcct	5220
tgtgaagtat	tcttaattat	aacttgcctt	tcagcgatgg	tacatgactt	gattcaacgt	5280
ttggttctga	acttacacac	tgatgcgttt	actcatctaa	cataatctga	cagggcctca	5340
gcaagggagc	catacatttt	tgtaacattt	tgatatgttt	taatgcatct	gacttagatc	5400
ttactgaaat	aaagcacttt	tcaaagaaaa	aaacacaaaa	aagg		5444

<210> 115

<211> 4092

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 480076.9

<400> 115

ggcgacaggg	gcggtctctt	cctgtggtgg	ggtttgtgaa	gtcgtggccc	gttagcagga	60
agcctaacag	tcgccccgac	gctagtgcag	ggacccaatc	tgagtccccg	gccagccgaa	120
tccaagccgt	gtgtactgcg	tgctcagcac	tgccccgaca	gtcctagcta	aacttcgcca	180
actccgctgc	ctttgccgcc	accatgccca	aaacgatcag	tgtgcgtgtg	accaccatgg	240
atgcagagct	ggagtgtgcc	atccagccca	acaccaccgg	gaagcagcta	tttgaccagg	300
tggtgaaaac	tattggcttg	aggggaagttt	ggttcttttg	tctgcagtac	caggacacta	360
aaggtttctc	cacctggctg	aaactcaata	agaaggtgac	tgcccaggat	gtgcggaagg	420
aaagccccct	gctctttaag	ttccgtgccca	agttctaccc	tgaggatgtg	tccgaggaat	480
tgattcagga	catcactcag	cgcctgttct	tcttgcaagt	gaaagagggc	attctcaatg	540
atgatattta	ctgccccgct	gagaccgctg	tgctgctggc	ctcgtatgct	gtccagtcta	600
agtatggcga	cttcaataag	gaagtgcata	agtctggcta	cctggccgga	gacaagttgc	660
tcccgcagag	agtccctggaa	cagcacaac	tcaacaagga	ccagtgggag	gagcggatcc	720
aggtgtggca	tgaggaacac	cgtggcatgc	tcagggagga	tgctgtcctg	gaatatctga	780
agattgctca	agatctggag	atgtatggtg	tgaactactt	cagcatcaag	aacaagaaag	840
gctcagagct	gtggctgggg	gtggatgccc	tgggtctcaa	catctatgag	cagaatgaca	900
gactaactcc	caagataggg	ttccccctgga	gtgaaatcag	gaacatctct	ttcaatgata	960
agaaatttgt	catcaagccc	attgacaaaa	aagccccgga	cttcgtcttc	tatgctcccc	1020
ggctgcggat	taacaagcgg	atcttggcct	tgtgcatggg	gaaccatgaa	ctatacatgc	1080
gccgtcgcaa	gcctgatacc	attgaggtgc	agcagatgaa	ggcacaggcc	cgggaggaga	1140
agcaccagaa	gcagatggag	cgtgctatgc	tggaaaaatga	gaagaagaag	cgtgaaatgg	1200
cagagaagga	gaaagagaag	attgaacggg	agaaggagga	gctgatggag	aggctgaagc	1260
agatcgagga	acagactaag	aaggctcagc	aagaactgga	agaacagacc	cgtagggtct	1320
tggaaactga	gcaggaacgg	aagcgtgcc	agagcgaggc	tgaaaagctg	gccaaaggagc	1380
gtcaagaagc	tgaagaggcc	aaggaggcct	tgctgcaggc	ctcccgggac	cagaaaaaga	1440
ctcaggaaca	gctggccttg	gaaatggcag	agctgacagc	tcgaatctcc	cagctggaga	1500
tggccccgaca	gaagaaggag	agtgaggctg	tggagtggca	gcagaaggcc	cagatggtac	1560
aggaagactt	ggagaagacc	cgtgctgagc	tgaagactgc	catgagtaca	cctcatgtgg	1620

```

cagagcctgc tgagaatgag caggatgagc aggatgagaa tggggcagag gctagtgtctg 1680
acctacgggc tgatgctatg gccaaaggacc gcagtgagga ggaacgtacc actgaggcag 1740
agaagaatga gcgtgtgcag aagcacctga aggcctcac ttcggagctg gccaatgcca 1800
gagatgagtc caagaagact gccaatgaca tgatccatgc tgagaacatg cgactgggcc 1860
gagacaaata caagaccctg cgccagatcc ggcagggcaa caccaagcag cgcattgacg 1920
aatttgagtc tatgtaatgg gcacccagcc tctagggacc cctcctccct ttttccttgt 1980
ccccacactc ctacaccta ctcacctaac tcatactgtg ctggagccac taactagagc 2040
agccctggag tcatgccaag catttaatgt agccatggga ccaaaccctag ccccttagcc 2100
cccacccact tccctgggca aatgaatggc tcactatggt gccaatggaa cctcctttct 2160
cttctctgtt ccattgaatc tgtatggcta gaatatccta cttctccagc ctagaggtag 2220
tttccacttg attttgcaaa tgcccttaca cttactgttg tcctatggga gtcaagtgtg 2280
gagtaggttg gaagctagct cccctcctct cccctaccac tgtcttcttc agggctccta 2340
gatttacacg gttggagtgt tatgcggtct aggggaatgag acaggaccta ggatattctc 2400
tccaggatgt caactgacct aaaatttgcc ctcacctccc gtttagagtt atttaggctt 2460
tgtaacgatt gggggataaa aagatgttca gtcatttttg tttctacctc ccagatcgga 2520
tctgttgcaa actcagcctc aataagcctt gtcgttgact ttagggactc aatttctccc 2580
caggggtggat gggggaaatg gtgccttcaa gaccttcacc aaacatacta gaagggcatt 2640
ggccattcta ttgtggcaag gctgagtaga agatcctacc ccaattcctt gtaggagtag 2700
aggccgggtct aaagttagct ctatgggcag atctaccctt tacttattat tccagatctg 2760
cagtcacttc gtgggactcg cccctcctcg cttcaatacc caaatcctct ccagctataa 2820
cagtagggat gactacccaa aagctcagcc agcccatca ggactcttgt gaaaagagag 2880
gatatgttca cacctagcgt cagtattttc cctgctaggg gtttttaggtc tcttcccctc 2940
tcagagctac ttggggccata gctcctgtct cacagccatc ccagccttgg catctagagc 3000
ttgatgccag taggtcaac tagggagtga gtgcaaaaag ctgagtatgg tgagagaagc 3060
ctgtgccctg atccaagttt actcaacctc ctcaggtgac caaaatcccc ttctcatcac 3120
tcccctccaa agaggtgact gggccctgcc tctgtttgac aaacctctaa cccaggtctt 3180
gacaccagct gttctgtccc ttggagctgt aaaccagaga gctgctgggg attctggcct 3240
agtcccttcc acacccccac cccttgctct caaccagga gcatccacct ccttctctgt 3300
ctcatgtgtg ctcttcttct ttctacagta ttatgtactc tactgatatc taaatattga 3360
ttttgcctt ccttgctaag gcaccattag aagatattag tcttggggca ggatgatttt 3420
ggcctcatta ctttaccacc cccacacctg gaaagcatat actatattac aaaatgacat 3480
tttgccaaaa ttattaatat aagaagcttt cagtattagt gatgtcatct gtcactatag 3540
gtcatacaat ccattcttaa agtacttggt atttgttttt attattactg tttgtcttct 3600
ccccaggggt cagtccctcaa ggggccatcc cccactctgt gctgacctt gaggagtctt 3720
gtgtgcattg ctgtgaatta gctcacttgg tgatatgtcc tatattggct aaattgaaac 3780
ctggaattgt ggggcaatct attaatagct gccttaaagt cagtaactta cccttaggga 3840
ggctggggga aaaggttaga ttttgtatcc aggggttttt tgtgtacttt ttgggttttt 3900
taaaaattgt ttttggaggg gtttatgtct aatccatgtt ctatttcagt gccataaaaa 3960
tttaggctcg agccgaatat ttttctttta caagagcaca acaggaacca aagtaacaga 4020
gtaatagata cagcactcag gataaatcat atcttttaaaa taataataaa aaaatttaca 4080
ccttgtccta ta 4092

```

<210> 116

<211> 4852

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 197687.11

<220>

<221> unsure

<222> 1756-1757, 1760-1761, 1764

<223> a, t, c, g, or other

<400> 116

```

gatcttaaga aagagagcaa ggaggaagag cccgggtgggg agcagggtcct tctccccac 60
ccccctaccc ccaactccca ctggagccgc attgagactg tacggcacca ccgggcgcgc 120
aatggctgtt ttctaactgg gatcctcggt gacgtatggc tgctgcccc ttggcagctg 180

```

tcttttatgga	ccagtaggca	gagcgaaatt	gacgctgaca	agacttttgc	atcttggaag	240
ggactgtaat	ctactgtagt	gaagaacaga	gcctctcaat	cagacgggtg	taaataagag	300
acggagggga	gtccagaaga	aaaggaagag	gaggaaaaac	aagtgtgtgt	tggggggaac	360
aggggggaaaa	gcatttttgg	tggatggtat	gaagccagcc	atggaaactg	cagccgagga	420
aaatactgaa	caaagccaag	agagaaaagg	ctgctttgaa	tgctgcatca	agtgtctggg	480
aggagtcccc	tacgcctccc	tggtgccac	catcctctgc	ttctccgggg	tggccttatt	540
ctgcggctgt	gggcatgtgg	ctctcgcagg	caccgtggcg	attcttgagc	aacacttctc	600
caccaacgcc	agtgaccatg	ccttgctgag	cgaggtgata	caactgatgc	agtatgtcat	660
ctatggaatt	gcgtcctttt	tcttcttgta	tgggatcatt	ctggtggcag	aaggctttta	720
caccacaagt	gcagtgaag	aactgcacgg	tgagtttaaa	acaaccgctt	gtggccgatg	780
catcagtgga	atgttcgttt	tcttcaccta	tgtgcttgga	gtggcctggc	tgggtgtgtt	840
tggtttctca	gcggtgccc	tgtttatggt	ctacaacata	tggccaactt	gtgaagtc	900
caagtcacgc	cagaccaacg	ggaccacggg	tgtggagcag	atctgtgtgg	atatccgaca	960
atacggtatc	attccttgga	atgctttccc	cggaaaaata	tgtggctctg	ccctggagaa	1020
catctgcaac	acaaacgagt	tctacatgtc	ctatcacctg	ttcattgtgg	cctgtgcagg	1080
agctggtgcc	accgtcattg	ccctgctgat	ctacatgatg	gctactacat	ataactatgc	1140
ggttttgaag	tttaagagtc	gggaagattg	ctgcactaaa	ttctaaattg	cataaggagt	1200
tttagagagc	tatgctctgt	agcatgaaat	atcatgaca	ctccagacta	aagcagagtc	1260
taggtttctg	caattttggt	acagtaattt	ttaaatagct	ttagtaaact	caccttgcat	1320
ggtagattaa	taagatgact	tactgtacat	gaattacaca	ataatgagat	ctgggtggcta	1380
ttccacatt	ttgaaaagga	ttcagttatt	tactgacagt	ggtgagcatc	ctttttaaaa	1440
taatgttctc	atacttaaac	attagagagc	agtatcttta	aatgaattat	taacactttg	1500
gaatacttac	attttctggt	atttttgatt	gcctgataac	cagtttcaat	gatgaaaatg	1560
aaaacaagtg	ctgaagatga	aatggaagag	aacggcttta	atctggattt	tgttttgtca	1620
cacctggaaa	atactttgca	aatatgttct	aaattgaaaa	caattttttt	atgatcacat	1680
ggttcactac	caaatagccc	tcaaataagc	cagatgaaaa	tttgaagaaa	aaggtcaccc	1740
agttctctgg	aaaaannaan	naanaaaaaa	aaaaaaagga	tttatatgtg	ggtagttttt	1800
tttttggtac	aacacaatca	ttctgttaga	gcccacaaaa	ttggtaacct	taaatttgtt	1860
gttttggtaa	gtaataacta	actgttttct	catagctagt	tctcaagctg	catgtaagat	1920
tttaacggga	agagaaaata	ggcctggacc	tgaaggctct	aaatatgttg	agaagaaagt	1980
atgaactata	aggaacttga	gatgtagatt	tattttgcag	gaaatacgag	gaaaatagga	2040
aagaagtgtt	tgccgcatca	agtgtaaaga	atgatactga	ggattttttac	attttatgaa	2100
atgaaataat	ggcattttaca	aatgaaaaa	tgtagtttca	caactaagtt	ttgttaacag	2160
agactgcatg	ctttgcttat	agttcttaat	tttggttttg	acattcattt	aattttttcc	2220
atgttaaata	tgtagtttaa	ttatttactc	aaaataaaca	ttgttcatgc	ttttaggcct	2280
ttgggggaat	tgatttttat	ccacaggtag	aaaatgggtc	ttgcacacac	tacacttatt	2340
tcaaatatac	aatgtgtctc	cgaactttcg	cattagctct	taaaattact	ctcaaaatgg	2400
tattaaaaaa	aaaaaaaaaa	gcacctctc	gtatttcat	tttgcttttt	cttaacaata	2460
cctttggcca	tttttttcca	gttactatg	tttgatact	aacttttctt	cagcctttta	2520
atgcgaagcc	aactagtaga	gcatgcttcc	aggatctgac	agctctgcta	gtagagcgag	2580
tatttattaa	tacagaatta	accttcgccc	ctttaaagtc	aagtcctgtc	aatctaacta	2640
gpgcctcgct	ttgccttctc	acaatgctca	ctagccatca	tgctcaccct	tctctcccag	2700
atcccacttc	tcatgtact	gtcttctact	tgggttact	taaaggatgc	gagcaaatg	2760
caggcttacc	aggatatcaa	agcaaaggaa	gaacaggaac	tgcaagatat	ccagtctcgg	2820
tcaaaagaac	aactcaattc	ttacacataa	atgtttgcca	gagtgtttcg	gccgacgtat	2880
ttacagctct	gacaaatcat	cagacagctg	ctctgcagta	cagatgtgta	tcccaccaa	2940
ctaattgtaga	tgtacaaaca	cttcaactgtc	tgtctcaagc	tgctgggatg	tatctctagg	3000
aaaacctttc	agtgggtaaa	tctttttctt	tagaacaat	attggaggtt	tcatgttagc	3060
catttttaaaa	ggcaacactt	tgcaaaaatg	atcgttcata	ctttgggaat	ttgtggcatg	3120
ttcacattta	ttgctagggc	aattctacca	agacactcaa	tggaaatagt	cacactcctt	3180
aatagggacc	tgtgactcct	taataaggac	ctgtgacatg	cccagcatca	agggataaga	3240
ccgtaaattc	acatatatgc	catctgtcct	caagtgttat	ctacatagga	aataaaatgg	3300
aattgatgta	aagttccatt	tctgacagct	gacattttatt	aaacttttga	tcaaagataa	3360
tgtgattctt	atgattgatt	tctcaaacta	gctttttcct	cccaagtcca	ggaccattta	3420
atttctctgag	ccaatcagaa	atatattttt	caataatgct	aaaatttagct	acaattctgc	3480
tgacctact	attaaagaat	ctggatgctg	gactcactga	caagctttcc	agaagcaatt	3540
ttataacaga	tttcatttta	acaaaatact	gatccaattt	tcattattct	tgagaaatgt	3600
cagctttgcc	ttaatgagta	tttgctttta	atttctaaga	atttatatca	taactagaga	3660
cccaaatatc	tttcacagaa	ttttgttcca	taaatgtttt	tcttaattat	taagaagtgt	3720
taccttatta	aaatgaccac	cattctaaac	catttttccag	tggctcggat	acgaagttaa	3780
cagtttcata	ccaactatct	aaaacctaat	tgcaaatgta	ccacagacct	ctaacctcct	3840

PA-0024 US

```
acttttatag acttgaatac ttaagtaatt taaattaggg ttggtatttc atttttttct 3900
tatctaaatc ttagtttcct ggaataataa agtttgatgt tcagcaagag aactgcttga 3960
gtttaagcca ttttcaaaag aaacttgccct tttacattat tgtgttccag aacattaagt 4020
gactgtaggt actgggtatt agtgatggta aactttgtgt tgctctttat gaaatgatcc 4080
atataactgt tgggtgcac agtgcttttc aaaggggctg cttactatag ggtaactat 4140
gtatattcat tgtaagagt taacttgtgg tttggctgtt tcctggattt tataacatac 4200
atgtgcagaa atgtattcaa atgaaaggaa gcataccctt atcaagatgc tattaaaatt 4260
gaacatcaag tataatattt catttggatt ctcttttttg gttaatgcct aaaaatgcct 4320
atttgggatt ttttttttct tttaaattaa gagaagctct cttctgtgta gaacagttgt 4380
tccaaaatag cttagtgttt tgttttcctg ttgcatgaca gatttaacta ttctttccag 4440
cagtggaggt gctgtcagag tccagtgttc tagaagaggc agtgtctaaa gcctaatttt 4500
acttttctaa ttctgtagc tattaccagg aatttttgaa agttttgttt aagttagcta 4560
atatttttta tgtaaagagc attaaatttt gctatgtata aatttttgta acctaacagt 4620
gaatcaatat tttctatcag tgccaagggc ttctgtagt tctattcaag tgttacaata 4680
aatatttgta gataatagtc aatacttgtg tatgcttatt ttaaagatct atttaggtgg 4740
aaatagttgt ggatgtacta agagtaatga aataaaatta tagcttcatt cacttgcctt 4800
tttaccatac ataaatccta tctttctttg ttctcagtat ggtttcactt tt 4852
```

<210> 117

<211> 1303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 202234.2

<400> 117

```
ctccgcgcca cgtgactccg cggccggggc gggacgcgac gggacgcgct gggaccggcg 60
tcgggggtcg cggggaccat gcagcggagg tgggtcttcg tgctgctcga cgtgctgtgc 120
ttactggctcg cctccctgcc cttegetatc ctgacgctgg tgaacgcccc gtacaagcga 180
ggattttact gcgggggatga ctccatccgg taccctacc gtccagatac catcacccac 240
gggctcatgg ctgggggtcac catcacggcc accgtcatcc ttgtctcggc cggggaagcc 300
tacctgggtgt acacagaccg gctctattct cgctcggact tcaacaacta cgtggctgct 360
gtatacaagg tgctggggac ctctctgttt ggggctgccg tgagccagtc tctgacagac 420
ctggccaagt acatgattgg gcgtctgagg cccaacttcc tagccgtctg cgaccccgac 480
tggagccggg tcaactgctc ggtctatgtg cagctggaga aggtgtgcag gggaaaccct 540
gctgatgtca ccgaggccag gttgtctttc tactcgggac actcttctct tgggatgtac 600
tgcattgggt tcttgggtgct gtatgtgcag gcacgactct gttggaagtg ggcacggctg 660
ctgcgaccca cagtccagtt ctctctgggt gcctttgccc tctacgtggg ctacaccgcg 720
gtgtctgatt acaaacacca ctggagcgat gtctctgttg gcctcctgca gggggcactg 780
gtggctgccc tcaactgtct ctacatctca gactcttcca aagcccgacc ccacagcac 840
tgtctgaagg aggaggagct ggaacggaag cccagcctgt cactgacgtt gaccctgggc 900
gaggctgacc acaaccacta tggatacccg cactctctct cctgaggccg gaccccgccc 960
aggcagggag ctactgtgag tccagctgag gccaccccag gtggtccctc cagccctggg 1020
taggcactga gggctctgga cgggctccag gaacctggg ctgatgggag cagtgagcgg 1080
gctccgctgc ccctgccct gcactggacc aggagtctgg agatgcttgg gtagccctca 1140
gcatttggag gggaacctgt tcccgctcgt ccccaaatat ccccttcttt ttatgggggt 1200
aagggaaggga ccgagagatc agatagtgtg tgttttgtaa aatgtaatgt atatgtgggt 1260
tttagtaaaa tagggcacct gtttcacaaa aaaaaaaaaa agg 1303
```

<210> 118

<211> 5702

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 025595.15

<400> 118

ctttgtctcaa	agtcgctgga	ctctaagctg	tgggagggac	cgctggacag	acctgggaac	60
tgacagaggg	cctggaggga	aacaggccaa	agaccacag	gcagagtga	cacggaaccc	120
caaagcaagg	aggagggtc	gggcccagga	ccgttcacct	ccccttatcc	ctgttcccct	180
cttcaggatg	gagctgacct	caagggaag	agggagggga	cagcctctgc	cctgggaact	240
tcgactgggc	ctactgctaa	gcgtgctggc	tgccacactg	gcacaggccc	ctgccccgga	300
tgtgcctggc	tgttccaggg	gaagctgcta	ccccgccacg	ggcgacctgc	tggtggggccg	360
agctgacaga	ctgactgcct	catccacttg	tggcctgaat	ggcccccagc	cctactgcat	420
cgtcagtcac	ctgcaggacg	aaaagaagtg	cttcctttgt	gactcccggc	gcccccttctc	480
tgctagagac	aaccacaca	gccatcgcat	ccagaatgta	gtcaccagct	ttgcaccaca	540
gcgggcgggca	gcctgggtggc	agtcagagaa	tggatatccct	gcggtcacca	tccagctgga	600
cctggagggt	gagtttcatt	tcacacacct	cattatgacc	ttcaagacat	ttcgccctgc	660
tgccatgtg	gtggaacgct	cagcagacct	tggccgcacc	tggcatgtgt	accgatattt	720
ctcctatgtg	tgtggggctg	acttcccagg	agtcacctta	gcacccccac	ggcactggga	780
tgatgtagtc	tgtgagtccc	gctactcaga	gattgagcca	tccactgaag	gcgaggtcat	840
ctatcgtgtg	ctggaccctg	ccatccctat	cccagacccc	tacagctcac	ggattcagaa	900
cctgttgaa	atcaccaacc	tacgggtgaa	cctgactcgt	ctacacacgt	tgggagacaa	960
cctactcgac	ccacggaggg	agatccgaga	gaagtactac	tatgcctctc	atgagctggt	1020
tgtacgtggc	aactgcttct	gctacggaca	gcctccagag	tgtgcacccg	ccccaggggc	1080
accagcccat	cgtgagggca	tgggtgcagg	agcctgcata	tgcaaacaca	acacacgtgg	1140
cctcaactgc	gagcagtgtc	aggatttcta	tcgtgacctg	ccctggcgctc	cggctgagga	1200
cggccatagt	catgcctgta	ggaagtgtga	gtgccatggg	cacaccacaca	gctgccactt	1260
cgacatggcc	gtatacctgg	catctggcaa	tgtgagtggg	ggtgtgtgtg	atggatgtca	1320
gcataaacaca	gctggggccc	actgtgagct	ctgtcggccc	ttcttctacc	gtgacccaac	1380
caaggacgtg	cgggatccgg	ctgtgtgccc	ctcctgtgat	tgtgacccca	tgggttctca	1440
agacgggtgt	cgctgtgatt	cccattgatga	ccctgcactg	ggactggtct	cgggccagtg	1500
tcgctgcaaa	gaacatgtgg	tgggcactcg	ctgccagcaa	tgccgtgatg	gcttcttttg	1560
gctcagcatc	agtgaccgtc	tgggctgccc	gcgatgtcaa	tgtaatgcac	ggggcacagt	1620
gcctggggagc	actccttgtg	accccaacag	tggatcctgt	tactgcaaac	gtctagtgtg	1680
tggacgtgga	tgtgaccgct	gcctgcctgg	ccactggggc	ctgagccacg	acctgctcgg	1740
ctgcccggccc	tgtgactcgc	acgtgggtgg	tgctttggat	cccagtggtg	atgagggcac	1800
aggccaatgc	cactgccgcc	agcacatggt	tgggcgacgc	tgtgagcagg	tgatatttcc	1860
ctacttccgg	cccttccctg	accaccta	ttgggagggc	gaggacaccc	gagggcagggt	1920
gctcgatgtg	gtggagcgcc	tggtgacccc	cggggaaact	ccatcctgga	ctggctcagg	1980
cttcgtgctg	ctacaggaag	gtcagaccct	ggagtctctg	gtggcctctg	tgccgaaggc	2040
tatggactat	gacctgctgc	tgcgcttaga	gccccagggtc	cctgagcaat	gggcagaggt	2100
ggaactgatt	gtgcagcgtc	cagggcctgt	gcctgcccac	agcctgtgtg	ggcatttgggt	2160
gccccaggat	gatcgcatcc	aagggaactc	gcaaccacat	gccaggta	tgatatttcc	2220
taatcctgtc	tgccttgagc	ctggatatctc	ctacaagctg	catctgaagc	tggtagggac	2280
aggggggaagt	gcccagcctg	agactcccta	ctctggacct	ggcctgtctc	ttgactcgtc	2340
ggtgctgctg	ccccgtgtcc	tgggtgctaga	gatgtttagt	gggggtgatg	ctgctgccc	2400
ggagcgccag	gccacctttg	aacgctacca	atgccatgag	gaggggtctg	tgcccagcaa	2460
gacttctccc	tctgaggcct	gcgcaccctc	cccatcagc	ctgtccaccc	tcattctaca	2520
tgggtgccct	cctatgctagt	gcaaccctca	aggttcaactg	agttctgagt	gcaaccctca	2580
tgggtggtcag	tgcctgtgca	agcctggagt	gggtggggcgc	cgctgtgacc	tctgtgcccc	2640
tggctactat	ggctttggcc	ccacaggctg	tcaagcctgc	cagtgcagcc	acgagggggc	2700
actcagcagt	ctctgtgaaa	agaccagtgg	gcaatgtctc	tgtcgaactg	gtgccttttg	2760
gcttcgctgt	gaccgctgcc	agcgtggcca	gtggggat	cctagctgcc	ggccatgtgt	2820
ctgcaatggg	catgcagatg	agtgaacac	ccacacaggc	gcttgccctg	gctgcccgtga	2880
tcacacaggg	ggtgagcact	gtgaaagggtg	cattgctggt	ttccacgggg	acccacggct	2940
gccatatggg	ggccagtgcc	ggccctgtcc	ctgtcctgaa	ggccctggga	gccaacggca	3000
ctttgtctact	tcttgccacc	aggatgaata	ttcccagcag	attgtgtgcc	actgcccggc	3060
aggctatacg	gggctgcgat	gtgaagcttg	tgcccctggg	cactttgggg	acccatcaag	3120
gccagggtggc	cgggtgccaac	tgtgtgagtg	cagtgggaac	attgacccaa	tggatcctga	3180
tgcctgtgac	ccccacacgg	ggcaatgcct	gcgctgttta	caccacacag	aggggtccaca	3240
ctgtgcccac	tgcaagcctg	gcttccatgg	cagagctgcc	cgacagagct	gtcaccgtg	3300
cacatgcaac	ctgctgggca	caaatccgca	gcagtgccca	tctcctgacc	agtgccactg	3360
tgatccaagc	agtgggcagt	gcccattgct	ccccaatgtc	cagggcccta	gctgtgaccg	3420
ctgtgcccc	aacttctgga	acctcaccag	tggccatggt	tgccagcctt	gtgcctgcca	3480
cccaagccgg	gccagaggcc	ccacctgcaa	cgagttcaca	gggcagtgcc	actgcccgtg	3540
cggctttgga	gggcggactt	gttctgagtg	ccaagagctc	cactggggag	acctggggtt	3600
gcagtgccat	gcctgtgatt	gtgactctcg	tggaaatagat	acacctcagt	gtcaccgctt	3660

cacaggtcac	tgcagctgcc	gcccaggggt	gtctgggtgtg	cgctgtgacc	agtgtgccc	3720
tggcttctca	ggaatctttc	ctgcctgcc	tccctgccat	gcatgcttcg	gggattggga	3780
ccgagtggtg	caggacttgg	cagcccgtac	acagcgccta	gagcagcggg	cgcaggagtt	3840
gcaacagacg	ggtgtgctgg	gtgcctttga	gagcagcttc	tggcacatgc	aggagaagct	3900
gggcattgtg	cagggcatcg	taggtgccc	caacacctca	gccgcctcca	ctgcacagct	3960
tgtggaggcc	acagaggagc	tgcggcgtga	aattggggag	gccactgagc	acctgactca	4020
gctcgaggca	gacctgacag	atgtgcaaga	tgagaacttc	aatgccaa	atgcactaag	4080
tggctctggag	cgagataggc	ttgcacttaa	tctcacactg	cggcagctcg	accagcatct	4140
tgacttgctc	aaacattcaa	acttcctggg	tgcctatgac	agcatccggc	atgcccatag	4200
ccagtctgca	gaggcagaac	gtcgtgccaa	tacctcagcc	ctggcagtac	ctagccctgt	4260
gagcaactcg	gcaagtgtc	ggcatcggac	agaggcactg	atggatgtc	agaaggagga	4320
cttcaacagc	aaacacatgg	ccaaccagcg	ggcacttggc	aagctctctg	cccataccca	4380
caccctgagc	ctgacagaca	taaatagact	gggtgtgtggg	gcaccagggg	atgcaccctg	4440
tgctacaagc	ccttgtgggg	gtgccggctg	tgcagatgag	gatgggcagc	cgcgctgtgg	4500
gggcctcagc	tgcaatgggg	cagcggctac	agcagacctc	gcactggggc	gggcccggca	4560
cacacaggca	gagctgcagc	gggcactggc	agaagggtgg	agcatcctca	gcagagtggc	4620
tgagactcgt	cggcaggcaa	gcgaggcaca	gcagcggggc	caggcagccc	tggacaaggc	4680
taatgcttcc	aggggacagg	tggaacaggc	caaccaggaa	cttcaagaac	ttatccagag	4740
tgtgaaggac	ttcctcaacc	aggagggggc	tgatcctgat	agcattgaaa	tgggtggccac	4800
acgggtgcta	gagctctcca	tcccagcttc	agctgagcag	atccagcacc	tggcgggtgc	4860
gattgcagag	cgagtccgga	gcctggcaga	tgtggatgcg	atcctggcac	gtactgtagg	4920
agatgtgcgt	cgtgccgagc	agctactgca	ggatgcacgg	cgggcaagga	gctgggctga	4980
ggatgagaaa	cagaaggcag	agacagtaca	ggcagcactg	gaggaggccc	agcgggcaca	5040
gggtattgcc	cagggtgcca	tccggggggc	agtggctgac	acacgggaca	cagagcagac	5100
cctgtaccag	gtacaggaga	ggatggcagg	tgcagagcgg	gcactgagct	ctgcaggtga	5160
aagggtcctg	cagttggatg	ctctcctgga	ggctctgaaa	ttgaaacggg	caggaaatag	5220
tctggcagcc	tctacagcag	aagaaacggc	aggcagtgcc	cagggctcgt	cccaggaggc	5280
tgagcagctg	ctacgcggtc	ctctgggtga	tcagtaccag	acggtgaagg	ccctagctga	5340
gcgcaaggcc	caaggtgtgc	tggctgcaca	ggcaagggca	gaacaactgc	gggatgaggc	5400
tcgggacctg	ttgcaagccg	ctcaggacaa	gtgcagcgg	ctacaggaat	tggaaggcac	5460
ctatgaggaa	aatgagcggg	cactggagag	taaggcagcc	cagttggacg	ggttggaggc	5520
caggatgcgc	agcgtgtctc	aagccatcaa	cttgcaggtg	cagatctaca	acacctgcca	5580
gtgacccctg	cccaaggcct	accccagttc	ctagcactgc	cccacatgca	tgtctgccta	5640
tgcactgaag	agctcttggc	ccggcagggc	ccccataaaa	ccagtgtgaa	ccccaaaaaa	5700
aa						5702

<210> 119

<211> 1081

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 021192.8

<400> 119

cttccctcagc	ccatgtgcaa	tcttggtctc	cagcaagtcc	ccggggctgc	ttgggtcaatg	60
cagccctgtg	tgcaggcctg	gcagccctgc	cacccccgcc	ctcgggtccc	attgggctgc	120
cacggcctgc	agtgggctgc	accagggttc	atccatcctc	cctgggcaga	gggaataaga	180
ggctgcctct	gccaccagt	cctgccgccc	aggaccgcga	gcagagacga	cgctgcagc	240
aaggagacca	ggaaggggtg	agacaaggaa	gagatgagaa	ggcaactttc	ctttgcgagc	300
ccctaggatg	tctgagctgg	agaaggccat	ggtggccctc	atcgacgttt	tccaccaata	360
ttctggaagg	gaggggagaca	agcacaagct	gaagaaatcc	gaactgaagg	agctcatcaa	420
caatgagctt	tcccattttc	tagaggaaat	caaagagcag	gaggttggtg	acaaagtcac	480
ggaaacactg	gacaatgatg	gagacggcga	atgtgacttc	cagggaattca	tggcctttgt	540
tgccatggtt	actactgcct	gccacgagtt	ctttgaacat	gagtgagatt	agaaagcagc	600
caaacctttc	ctgtaacaga	gacggtcatg	caagaaagca	gacagcaagg	gcttgcagcc	660
tagtaggagc	tgagctttcc	agccgtgttg	tagctaatta	ggaagcttga	tttgctttgt	720
gattgaaaaa	ttgaaaacct	ctttccaaag	gctgttttaa	cggcctgcat	cattctttct	780
gctatattag	gcctgtgtgt	aagctgactg	gccccaggga	ctcttggttaa	cagtaactta	840
ggagtcaggt	ctcagtgata	aagcgtgcac	cgtgcagccc	gccatggccg	tgtagacctt	900

PA-0024 US

```
aacccggagg gaaccctgac tacagaaatt accccggggc acccttaaaa cttccactac 960
ctttaaaaaa caaagcctta tccagcatta ttgtgaaaaca ctgctgttct ttaaattgcgt 1020
tcctcatcca tgcagataac agctgggttg ceggtgtggc cctgcaaggc gtgggtggctt 1080
c 1081
```

<210> 120

<211> 3835

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 196545.7

<220>

<221> unsure

<222> 3743-3768

<223> a, t, c, g, or other

<400> 120

```
tatcgtgact ctgaagggtgc cacggaactg tatttactgt gattgttttc attcagtcctc 60
agcaacctct agaggatctt gatgctcaat tgagaagaac acttagtcca gagatgatca 120
cagtgaacttc tgcggttggt cctgtgtcca tggcggtctc aacagcaatc acagaagcag 180
gaacacagcc tcagaagggt gtttctcaag tcaaagaagg ccctgtccta gcaactagtt 240
caggagctgg tgtttttaag atgggacgat ttcaggtttc tgttgacgca gacggtgccc 300
agaaagaggg taaaaataag tcagaagatg caaagtctgt tcattttgaa tccagcacct 360
cagagtcttc agtgctatca agtagtagtc cagagagtac cttggtgaaa ccagagccga 420
atggcataac catccctggt atctcttcag atgtgccaga gagtgtccac aaaactactg 480
cctcagaggg aaagtcagac actgggcagc ctaccaaggt tggacgtttt caggtgacaa 540
ctacagcaaa caaagtgggt cgttctctct tatcaaaaac tgaggacaag atcactgaca 600
caaagaaaga aggaccagt gcatctcctc ttttatatga ctttgaacaa gctgttcttc 660
ctgctgtgat accaaagaaa gagaagcctg aactgtcaga gccttcacat ctaaattgggc 720
cgtcttctga cccggaggcc gcttttttaa gtagggatgt ggatgatggt tccggtagtc 780
cacactcgcc ccatacagct agctcaaaga gccttcttag ccagaatcta agtcaaagcc 840
ttagtaattc atttaactcc tcttacatga gtagcgacaa tgagtcagat atcgaagatg 900
aagacttaaa gttagagctg cgacgactac gagataaaca tctcaaagag attcaggacc 960
tgcagagtcg ccagaagcat gaaattgaat ctttgtatac caaactgggc aaggtgcccc 1020
ctgctgttat tattccccc gctgctcccc tttcagggag aagacgacga cccactaaaa 1080
gcaaaggcag caaatctagt cgaagcagtt ccttggggaa taaaagcccc cagctttcag 1140
gtaacctgtc tggtcagagt gcagcttcag tcttgacccc ccagcagacc ctccaccctc 1200
ctggcaacat cccagagtcc gggcagaatc agctgttaca gccccttaag ccactctcct 1260
ccagtacaa cctctattca gccttcacca gtgatggtgc catttcagta ccaagccttt 1320
ctgtctcagg tcaaggaaac agcagcaca aactgttgg ggcaacagtg aacagcgaag 1380
ccgcccagc tcagcctct gccatgacgt ccagcaggaa gggcacattc acagatgact 1440
tgcacaagtt ggtagacaat tgggcccag atgccatgaa tctctcaggc aggagaggaa 1500
gcaaagggca catgaattat gagggccctg gaatggcaag gaagtctct gcacctgggc 1560
aactgtgcat ctccatgacc tcgaacctgg gtggtctctg ccccatctct gcagcatcag 1620
ctacctctct aggtcacttc accaagtcta tgtgcccccc acagcagtat ggctttccag 1680
ctacccccatt tggcgtctca tggagtggga cgggtggccc agcaccacag ccacttggcc 1740
agttccaacc tgtgggaact gcctccttgc agaatttcaa catcagcaat ttgcagaaat 1800
ccatcagcaa cccccaggc tccaacctgc ggaccactta gacctagaga cattaactga 1860
atagatctgg gggcaggaga tggaaatgct aggggggtgg tgggggtggg aagtagccta 1920
tatactaact actagtgtct catttaactg gttatttctt gccagagggg aatgttttta 1980
atactgcatt gagccctcag aatggagagt ccccccgct ccagttattg gaatgggaga 2040
ggaaggaaag aacagctttt ttgtcaagg gcagcttcag accatgcttt cctgtttatc 2100
tatactcagt aatgaggatg agggctagga aagtcttggt cataaggaag ctggagaact 2160
caatgtaaaa tcaaaccat ctgtaatttc gagtgggtgg agctcttgct tttggtacat 2220
gccctgaatc cctcactccc tcaagaatcc gaaccacagg acaaaaacca cctactgggc 2280
tctctcctac cctgccctcc tccctttttt ttacccctct cttttttatt ttttctttgc 2340
tcttttagag ccagtgaata ataccagggt actggggtgc aactctttct tatgataggt 2400
cattagtgtc ttaaggcaaaa gatattagca gctttgactg cagcattagc aattaggaaa 2460
```

aaaaaaaaat	taagttccct	gcggacatgt	aacttttgcca	tcagtttttga	tgtggaaaca	2520
ctgtgatata	taaaatggtg	ttggacaaca	gtagtttttaa	gagtaaaata	tgaaacgttt	2580
aaaaagttcc	aaaaaaagct	agctctgtcc	tttactttatt	gagacacttt	aacttttttcc	2640
tttgtatttc	cattgtatta	gataaataaa	tgtgaatgta	aaattgtata	aattactgta	2700
cttgaatact	tctgtttccc	agtgttgctt	gctggacatt	ttagtgcctt	ggacttctat	2760
tgcttctgcc	attagcatca	acttaccaga	ccccagatca	ataaagggca	tgtggaagga	2820
aatcgtaggt	ccatgtgacc	ccagcagtc	agcagtggtt	atgccaaaagg	gaaattgaaa	2880
aagtattttt	ttaagtcatt	caacaacttt	gtctagagca	ggtgtaagat	gagtaggggtg	2940
ggaagttagg	ttggcatcag	tggttaaaaa	cagaaagttc	tgtttcggga	atagtgagga	3000
gggggtgttg	taacaaaatt	ggacaactta	aaagaatggt	gtgtgctggg	tgaaagacaa	3060
agactaaaga	atgaggaaac	aaacgtgatg	cctggccagt	gactgtcata	taaacctttc	3120
ttatttgagc	taggcttgaa	cagacgtgac	ctagaagaaa	ctgaacataa	agagaagggg	3180
gtggggggct	agttttcaag	ttgggggaacc	tgatagtga	aagtcacaga	tggagaaaat	3240
tgctctcaga	aaaactgttt	ggattgcttt	cctcttggtg	cacatgtacc	atgcatttct	3300
cagcttgggg	tactacattt	tgtggaaagt	taatctatct	atctttccac	atctgaatta	3360
atcattctag	gaaagaatac	ttattcctac	tcatttcoct	tatgatgtcc	aaatggttgc	3420
aggatcataa	tctattgtgc	cacctttatt	tctagaagta	caactaatat	gttcacattt	3480
tcaaataaat	aataactccc	gtaagtaata	atcgtagtta	ttcagtgtta	ttcagtgtta	3540
tgctccttg	taatgggtag	ttattaatta	tttccagagc	tttccggaaa	tactgtccta	3600
actggctatg	tttaggatct	ttgttatctc	tgaagacaaa	gaaagaagct	aggactctta	3660
attttggggg	gcttcttgac	tcttagttgg	gaaactgaaa	atatttccaa	ccttttacc	3720
acgtcaatgg	catattctgg	gannnnnnnn	nnnnnnnnnn	nnnnnnnnag	aaagaggctg	3780
gaggctcctg	taccctgttc	atccttaagg	gccttgcttc	ccttaataag	taagt	3835

<210> 121

<211> 3092

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481242.1

<400> 121

tacaaaaaag	ctttttacgag	gtatcagcac	ttttcttttca	ttaggggggaa	ggcgtgagga	60
aagtaccaaa	cagcagcgga	gttttaaact	ttaaatagac	aggtctgagt	gcctgaactt	120
goccttttcat	tttacttcat	cctccaagga	gttcaatcac	ttggcgtgac	ttcactactt	180
ttaagcaaaa	gagtggtgcc	caggcaacat	gggtgactgg	agcgcccttag	gcaaaactcct	240
tgacaagggt	caagcctact	caactgctgg	aggggaaggtg	tggtctgcag	tacttttcat	300
tttccgaatc	ctgctgctgg	ggacagcggt	tgagtcagcc	tggggagatg	agcagctctgc	360
ctttcgttgt	aacactcagc	aacctgggtg	tgaaaatgtc	tgctatgaca	agtctttccc	420
aatctctcat	gtgcgcttct	gggtcctgca	gatcataatt	gtgtctgtac	ccacactctt	480
gtacctggct	catgtgttct	atgtgatgcg	aaaggaagag	aaactgaaca	agaaagagga	540
agaactcaag	gttgcccaaa	ctgatggtgt	caatgtggac	atgcacttga	agcagattga	600
gataaagaag	ttcaagtacg	gtattgaaga	gcatggtaag	gtgaaaatgc	gagggggggtt	660
gctgcgaacc	tacatcatca	gtatcctctt	caagtctatc	tttgagggtg	ccttcttgct	720
gatccagtg	tacatctatg	gattcagctt	gagtgctgtt	tacacttgca	aaagagatcc	780
ctgcccacat	caggtggact	gtttcctctc	tgcgccacag	gagaaaacca	tcttcatcat	840
cttcattgctg	gtggtgtcct	tggtgtccct	ggccttgaat	atcattgaac	tcttctatgt	900
tttcttcaag	ggcgttaagg	atcgggttaa	gggaaagagc	gacccttacc	atgcgaccag	960
tggtgcgctg	agccctgcc	aagactgtgg	gtctcaaaaa	tatgcttatt	tcaatggctg	1020
ctoctcacca	accgctcccc	tctcgccat	gtctcctcct	gggtacaagc	tggttactgg	1080
cgacagaaac	aattcttctt	gccgcaatta	caacaagcaa	gcaagtgagc	aaaactgggc	1140
taattacagt	gcagaacaaa	atcgaatggg	gcaggcgagg	agcaccatct	ctaactccca	1200
tgacagcct	tttgatttcc	ccgatgataa	ccgaattctt	aaaaaactag	ctgtgggaca	1260
tgaattacag	ccactagcca	ttgtggacca	gcgaccttca	agcagagcca	gcagtcgtgc	1320
cagcagcaga	cctcggcctg	atgacctgga	gatctagata	caggcttgaa	agcatcaaga	1380
ttocactcaa	ttgtggagaa	gaaaaaagg	gctgtagaaa	gtgcaccagg	tgtaaatttt	1440
gatccgggtg	aggtggtact	caacagcctt	attcatgagg	cttagaaaac	acaaagacat	1500
tagaatacct	aggttcactg	ggggtgtatg	gggtagatgg	gtggagaggg	aggggataag	1560
agagggtgct	gttggtattt	aaagtagtgg	attcaaagaa	cttagattat	aaataagagt	1620

tccattaggt	gatacataga	taagggtttt	ttctccccgc	aaacacccct	aagaatgggt	1680
ctgtgtatgt	gaatgagcgg	gtggtaattg	tggctaaata	tttttgtttt	accaagaaac	1740
tgaaataatt	ctggccagga	ataaatactt	cctgaacatc	ttaggtcttt	tcaacaagaa	1800
aaagacagag	gattgtcctt	aagtccctgc	taaaacattc	cattgttaaa	atttgcactt	1860
tgaaggtaag	ctttctaggc	ctgaccctcc	aggtgtcaat	ggacttgtgc	tactatattt	1920
ttttattctt	ggtatcagtt	taaaattcag	acaaggccca	cagaataaga	ttttccatgg	1980
catttgcaaa	tacgtatatt	ctttttccat	ccacttgcac	aatatcatta	ccatcacttt	2040
ttcatcattc	ctcagctact	actcacattc	atttaatggg	ttctgtaaag	atttttaaga	2100
cagttgggat	gtcacttaac	atTTTTTTTT	tgagctaaag	tcagggaatc	aagccatgct	2160
taatatttaa	caatcactta	tatgtgtgtc	gaagagtttg	ttttgtttgt	catgtatttg	2220
tacaagcaga	tacagtataa	actcacaac	acagatttga	aaataatgca	catatgggtg	2280
tcaaatttga	acctttctca	tggatttttg	tgggtgtggc	caatatgggtg	tttacattat	2340
ataattcctg	ctgtggcaag	taaagcacac	tttttttttc	tcctaaaatg	ttttccctg	2400
tgtatcctat	tatggatact	ggttttgtta	attatgatcc	tttattttct	ctcctttttt	2460
taggatatag	cagtaatgct	attactgaaa	tgaatttcct	ttttctgaaa	tgtaatcatt	2520
gatgcttgaa	tgatagaatt	ttagtactgt	aaacaggcct	tagtcattaa	tgtgagagac	2580
ttagaaaaaa	tgcttagagt	ggactattaa	atgtgcctaa	atgaattttg	cagtaactgg	2640
tattcttggg	ttttcctact	taatacacag	taattcagaa	cttgtattct	attatgagtt	2700
tagcagctct	ttggagtgc	cagcaacttt	gatgtttgca	ctaagatttt	atttggaatg	2760
caagagaggt	tgaagagga	ttcagtagta	cacatacaac	taattttatt	gaactatatg	2820
ttgaagacat	ctaccagttt	ctccaaatgc	cttttttaaa	actcatcaca	gaagattggg	2880
gaaaatgctg	agtatgacac	ttttcttctt	gcatgcatgt	cagctacata	aacagttttg	2940
tacaatgaaa	attactaatt	tgtttgacat	tccatgttaa	actacgggtc	tgttcagctt	3000
cattgcatgt	aatgtagacc	tagtccatca	gatcatgtgt	tctggagagt	gttctttatt	3060
caataaagtt	ttaatttagt	ataaacataa	aa			3092

<210> 122

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1090667.2

<220>

<221> unsure

<222> 394, 635, 914, 1085

<223> a, t, c, g, or other

<400> 122

gggtggagg	ggatcatagt	tctccctgag	tgagacttgc	ctgctcctct	ggccccgtgt	60
cctgtcctgt	tctccagcat	ggtgtgtctg	aagctccctg	gaggttccta	catggcagtg	120
ctgacagtga	cactgatggg	gctgagctcc	ccactggcct	tggctgggga	cacccgacca	180
tgtttcttgc	agcaggataa	gtatgagtgt	catttcttca	acgggacgga	gcgggtgcgg	240
ttcctgcaca	gaggcatcta	taaccaagag	gaggactgcy	cttcgacagc	gacgtggggg	300
agtaccgggc	ggtgacggag	ctggggcggc	ctgatgccga	gtactggaac	agccagaagg	360
acctcctgga	gcagaggcgg	gccgcggttg	acantactct	cagacacaac	tacgggggtg	420
tggagagctt	cacagtgcag	cggcgagtct	atcctaaggt	gactgtgtat	cctgcaaaga	480
cccagaccct	gcagcaccac	aacctcctgg	tctgctctgt	gaatggtttc	tatccaggca	540
gcattgaagt	caggtgggtc	cggaacggcc	aggaagagaa	gactgggggtg	gtgtccacag	600
gcctgatcca	gaatggagac	tggaccttcc	agacnctggt	gatgctggaa	acagttcctc	660
ggagtggaga	ggtttacacc	tgccaagtgg	agcacccaag	cctgacgagc	cctctcacag	720
tggaaatggg	agcacggtct	gaatctgcac	agagcaagat	gctgagtgga	gtcggggggt	780
togtgcctgg	cctggctctc	cttggggcgg	gactgttcat	ctacttcagg	aatcagaaag	840
gacactctgg	acttcagcca	acaggattcc	tgagctgaag	tgaagatgac	cacattcaag	900
gaagaacctt	ctgncccagc	tttgcaggat	gaaacacttc	cccgtctggc	tctcattctt	960
ccacaagaga	gacctttctc	cggacctggt	tgctactggt	tcagcagctc	tcagaaaaat	1020
gtcctccctt	gtggctgcct	cagctcgtac	ctttggcctg	aagtcccagc	attaatggca	1080
gcccntcatc	ttccaagttt	tgtgctcccc	tttacctaat	gcttcctgcc	tcccatgcat	1140
ctgtactcct	gctgtgccac	aaacacatta	cattattaaa	tgtttctcaa	ac	1192

PA-0024 US

<210> 123
<211> 1946
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1088652.1

<400> 123
caggggactt agacctggtt gttggcatgg agtggaggat gaagaggat cttctgagca 60
gagcattttt gtagtaggag tgtcagaggt caggactctc atggcagagc tggagtctca 120
cccatgtgac atatgtggcc caatattgaa agatacctta cacctggcta aataccatgg 180
gggaaaagcc aggcagaaac catacttgtg tggggcatgt ggaaagcaat tctggttcag 240
tacagacttt gaccagcacc agaaccagcc caatggaggg aaacttttcc caaggaagga 300
gggcagagac tctgtgaaaa gctgcagagt ccatgtgccca gagaagaccc tcacatgtgg 360
gaaaggtagg agagactttt cagccacatc tggccttctt cagcatcagg cctctctcag 420
cagcatgaag cccacaaga gcactaagct tgtgagtggc tttctcatgg gacagaggta 480
tcacaggtgt ggtgaatgtg ggaaagcctt caccgcgaaa gacacacttg ctcgcatca 540
gagaatccac actggagaaa ggccttatga gtgtaacgaa tgtgggaaat tcttcagcca 600
aagctatgac ctctttaaac accagacagt tcacactgga gaaaggccat acgagtgcag 660
cgaatgtggg aaattcttta gacaaatctc cggcctgatt gagcacaggc gagttcacac 720
gggtgaaaaga ctctatcagt gtggcaaatg tgggaaattt tttagcagta agtctaactc 780
cattcgacac caggaagttc acacaggagc caggccttat gtatgcagcg aatgtgggaa 840
agagttcagt cggaaacaca cacttgttct gcaccaacga actcacactg gagaaaggcc 900
ttatgagtgc agtgaatgtg ggaaggcctt tagccaaagc tcccacctta atgtacactg 960
gagaattcac agcagtgatt atgagtgtag cagatgtggg aaagctttca gctgcactctc 1020
caaactcatt cagcaccaga aagttcactc tggagaaaag ccttatgagt gcagcaagtg 1080
cgggaaagcc ttcactcaaa gacccaacct catcaggcac tggaaagtcc acactgggga 1140
aaggccttat gtgtgtagt agtgcgagg agaatcacc cggaacaga cacttgttct 1200
gcaccagagg gttcatgctg gagaaaagct ttaagagtgt agcaaagtgt ggggaaagtc 1260
ttaggccaat gcccccgact tactatatgg tggggaacta gcagtagtta atgagtgcag 1320
cagatgcagg aaagccttcc cctggaggct gaaccttacc cgccattggg aatttcacac 1380
cggacacagg ccttagcagt ctaagcaatg tgctgtctct gttcagccca acagctcacc 1440
ctagagtgga actctgggag cagccattgg gagggaaacca tcagtaagaa gtgaaacttc 1500
atagatatgg acattcccac tgggggagat tcctgtgag tgtcaagtat gtgagatgct 1560
ttcagcagct gtgtgtgact ttttaaatgg ctattggcct ttgctggggc aggagccatc 1620
tgctcctacc atctggcaga atcatactgc gtttaccatt taccacagca tgcttgtgac 1680
gggcagacct ctcttctctc cccagtcctt aaaaggtgtt gtgagtggtc tcacagccca 1740
ctaggggtct taatttcctc tcttttgatg taaatggcat ggaaataatc agctttgttc 1800
aagaggacac agaaggattc tgcaaatagc ctgcagagac ttacctgtgt tgattgattt 1860
catatgatgc tcgttatgga tatatccaat atccaagtca cccagctctg gaactgcctg 1920
cttcacattg ctcatgataa taaagg 1946

<210> 124
<211> 1755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 248306.1

<220>
<221> unsure
<222> 1751-1752
<223> a, t, c, g, or other

<400> 124
cacactgacg aggccatgat tgaatttagg tgacctatag acgcgctgta actacgctcg 60
gaattcggct cgaggtcacc tectcccctt gtgccttagg tccacccgag cccctcccc 120

PA-0024 US

```
cgggccgccc acgagcacga agttggcggg agcctataaa agctggtgcc ggcgcgaccc 180
gcggacacac agtgcaggcg cccaagccgc cgccgccaga tcggtgccga ttctgtccct 240
gccccgaccg ccagcgcgac catgtcccat cactgggggt acggcaaaca caacggacct 300
gagcactggc ataaggactt cccattggcc aaggggagagc gccagtcccc tgttgacatc 360
gacactcata cagccaagta tgacccttcc ctgaagcccc tgtctgtttc ctatgatcaa 420
gcaacttccc tgaggatcct caacaatggg catgctttca acgtggagtt tgatgactct 480
caggacaaaag cagtgtctca gggaggaccc ctggatggca cttacagatt gattcagttt 540
cacttttact ggggttctact tgatggacaa ggttcagagc atactgtgga taaaaagaaa 600
tatgtctcag aacttcactt ggttcactgg aacaccaaatt atggggattt tgggaaagct 660
gtgcagcaac ctgatggact ggccgttcta ggtatTTTTT tgaagggttg cagcgctaaa 720
ccgggccttc agaaagtgtg tgatgtgtgt gattccatta aaacaaaggg caagagtgtc 780
gacttcaacta acttcgatcc tcgtggcctc ctctctgaat ccctggatta ctggacctac 840
ccaggctcac tgaccacccc tcctcttctg gaatgtgtga cctggattgt gctcaaggaa 900
cccatcagcg tcagcagcga gcaggtgttg aaattccgta aacttaactt caatggggag 960
ggtgaacccg aagaactgat ggtggacaac tggcgcccag ctacagccact gaagaacagg 1020
caaatcaaaag cttccttcaa ataagatggg cccatagtct gtatccaaat aatgaatctt 1080
cgggtgtttc cctttagcta agcacagatc taccttggtg atttggaccc tggttgcttt 1140
gtgtctagtt ttctagaccc ttcatctctt acttgataga cttactaata aaatgtgaag 1200
actagaccaa ttgtcatgct tgacacaact gctgtggctg gttggtgctt tgtttatggg 1260
agtagttttt ctgtaacaca gaatatagga taagaaataa gaataaagta ccttgacttt 1320
gttcacagca ttaggggtga tgagcactca caattgttga ctaaaatgct gcttttaaaa 1380
cataggaaaag tagaatggtt gagtgc aaat ccatagcaca agataaattg agctagttaa 1440
ggcaaatcag gtaaaatagt catgattcta tgtaatgtaa accagaaaaa ataaatgttc 1500
atgatttcaa gatgttatat taaagaaaaa ctttaaaaat tattatatat ttatagcaaa 1560
gtttatcttaa atatgaattc tgttgtaatt taatgacttt tgaattacag agatataaat 1620
gaagtattat ctgtaaaaat tgttataatt agagtgttga tacagagtat atttccattc 1680
agacaatata tcataactta ataaatattg tatttttagat atattctcta ataaaattca 1740
gaattctaaa nngga 1755
```

<210> 125

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 431588.3

<220>

<221> unsure

<222> 2018-2291, 2487

<223> a, t, c, g, or other

<400> 125

```
gagtctctga agccacagat ctcttaagaa ctttctgtct ccaaaccgtg gctgctcgat 60
aaatcagaca gaacagttaa tcctcaattt aagcctgata taacccttag aaacagatat 120
agaacaatgg aagtgacaac aagattgaca tggaaatgat aaaatcatct gcgcaagtgc 180
ttggaaatgt ttctttgagt cttctctata agtctagtgt tcatggaggt agcattgaag 240
atatgggttg aagatgcagc cgtcagggat gtactataac aatggcttac attgattaca 300
atatgattgt agcctttatg cttggaaatt atattaattt acgtgaaagt tctacagagc 360
caaatgattc cctatggttt tcacttcaaa agaaaaatga caccactgaa atagaaactt 420
tactcttaaa tacagcacca aaaattattg atgagcaact ggtgtgtcgt ttatcgaaaa 480
cggatatttt cattatatgt cgagataata aaatttatct agataaaatg ataacaagaa 540
acttgaaact aagggtttat ggccaccgtc agtatttggg atgtgaagtt ttctgagttg 600
aaggaattaa ggataaccta gacgacataa agaggataat taaagccaga gagcacagaa 660
ataggcttct agcagacatc agagactata ggccctatgc agacttggtt tcagaaattc 720
gtattctttt ggtgggtcca gttgggtctg gaaagtccag ttttttcaat tcagtcaagt 780
ctatttttca tggccatgtg actggccaag ccgtagtggg gtctgatatc accagcataa 840
ccgagcggta taggatatat tctgtttaaag atggaaaaaa tggaaaatct ctgccattta 900
tggtgtgtga cactatgggg ctgatggggg cagaaggagc aggactgtgc atggatgaca 960
ttccccacat cttaaaagggt tgtatgccag acagatatca gtttaattcc cgtaaaccaa 1020
```

ttacacctga	gcattctact	tttatcacct	ctccatctct	gaaggacagg	attcactgtg	1080
tggcttatgt	cttagacatc	aactctattg	acaatctcta	ctctaaaatg	ttggcaaaaag	1140
tgaagcaagt	tcacaaagaa	gtattaaact	gtggatatagc	atatgtggcc	ttgcttacta	1200
aagtggatga	ttgcagtga	gttcttcaag	acaacttttt	aaacatgagt	agatctatga	1260
cttctcaaag	ccgggtcatg	aatgtccata	aaatgctagg	cattcctatt	tccaatattt	1320
tgatggttgg	aaattatgct	tcagatttgg	aactggaccc	catgaaggat	attctcatcc	1380
tctctgcaat	gaggcagatg	ctgcgggctg	cagatgattt	tttagaagat	ttgcctcttg	1440
aggaaactgg	tgcaattgag	agagcgttac	agccctgcat	ttgagataag	ttgccttgat	1500
tctgacattt	ggcccagcct	gtactgggtg	gccgcaatga	gagtcaatct	ctattgacag	1560
cctgcttcag	attttgcttt	tgttcgtttt	gccttctgtc	cttggaaacag	tcatatctca	1620
agttcaaagg	ccaaaacctg	agaagcgggtg	ggctaagata	ggtcctactg	caaaccaccc	1680
ctccatattt	ccgtaccatt	tacaattcag	tttctgtgac	atctttttta	accactggag	1740
gaaaaatgag	atattctcta	atttattctt	ctataacact	ctatatagag	ctatgtgagt	1800
actaatcaca	ttgaataata	gttataaaat	tattgtatag	acatctgctt	cttaaacaga	1860
ttgtgagttc	tttgagaaac	agcgtggatt	ttacttatct	gtgtattcac	agagcttagc	1920
acagtgcctg	gtaatgagca	agcatacttg	ccattacttt	tccttcccac	tctctccaac	1980
atcacattca	ctttaaattt	ttctgtatat	agaaagggnn	nnnnnnnnnn	nnnnnnnnnn	2040
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2100
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2160
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2220
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2280
nnnnnnnnnn	ngactgaaag	agaatgaaaa	gctggggaga	ggaaataaaa	ataaagaagg	2340
aagagtgttt	catttatatc	tgaatgaaaa	tatgaatgac	tctaagtaat	tgaattaatt	2400
aaaatgagcc	aacttttttt	ttaacaattt	acatttttatt	tctatgggaa	aaaataaata	2460
ttcctcttct	aacaaaaaag	gaaaagntct	aaac			2494

<210> 126

<211> 3711

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 252234.3

<400> 126

gtgcgagata	ttttgaaaaa	tatacttgat	tgattataac	atctccccag	accagaaaaa	60
acagaaaagt	ccacagaaat	taaatgttga	agagaaaactc	tcaaagggaag	ttacagaaaga	120
aactatctct	ttcccagtaa	gttcagtggg	aagtgcacta	gaacatgaat	atgacttggg	180
gaaattagat	gaaagttttt	atggaccaga	aaagggccac	aacatattat	ctcatccaga	240
gacccaaaagc	caaaactcag	ctgacaggaa	tgtttcaaag	gacacaaaga	gagatgtgga	300
ctcaaagtca	ccgggggatgc	ctttatttga	agcagaggaa	ggagtctctat	cacgaaccca	360
gataatttct	accactatta	aagtcattga	tccagaattt	ctggaggagc	cacctgcact	420
tgcattttta	tataaggatc	tgtatgaaga	agcagttgga	gagaaaaaga	aggaagagga	480
gacagcttct	gaaggtgaca	gtgtgaattc	tgaggcatca	tttcccagca	gaaattctga	540
cactgatgat	ggaacaggaa	tatattttga	gaagtacata	ctcaaagatg	acattctcca	600
tgacacatct	ctaactcaaa	aggaccaggg	ccaaggtctg	gaagaaaaac	gagttggtaa	660
ggatgattca	taccaaccga	tagctgcaga	aggggaaatt	tggggaaagt	ttggaactat	720
ttgcaggaga	agagtctgga	agaacagaaa	ggtgtttatg	gggaaggaga	atcagtagac	780
catgtggaga	ccgttggtta	cgtagcgatg	cagaagaaag	ctcccatcac	agaggacgtc	840
agagtggcta	cccagaaaat	aagttatgag	gttccatttg	aagacaccca	tcatgttctg	900
gagcgtgcag	atgaagcagg	cagtcacggt	aatgaagtgc	gaaatgcaag	tccagaggtc	960
aatctgaatg	tcccagtaga	agtgtccttc	ccggagggaag	aatttgcac	tggtgcaact	1020
catgttcaag	aaacatcact	agaagaacct	aaaatcctgg	tcccacctga	gccaaagtga	1080
gagaggctcc	gtaatagccc	tgttcaggat	gagtagaat	ttacagaatc	cctgcataat	1140
gaagtgggtc	ctcaagacat	attatcagaa	gagactgtct	cagaatccac	acctgaagat	1200
gtcttatctc	aaggaaagga	atcctttgag	cacatcagtg	aaaatgaatt	tgcgagtga	1260
gcagaacaaa	gtacacctgc	tgaacaaaaa	gagttgggca	gcgagaggaa	agaagaagac	1320
caattatcat	ctgaggtagt	aactgaaaag	gcacaaaaag	agctgaaaaa	gtcccagatt	1380
gacacatact	gttacacctg	caaagtgtcca	atttctgtcca	ctgacaaggt	gtttggcacc	1440
cacaaagacc	atgaagtttc	aacgcttgac	acagctataa	gtgctgtaaa	ggttcaatta	1500

```

gcagaatttc tagaaaattt acaagaaaag tcccttgagga ttgaagcctt tgttagttag 1560
atagaatcct tttttaatac cattgaggaa aactgtagta aaaatgagaa aaggctagaa 1620
gaacagaatg aggaaatgat gaagaagggt ttagcacagt atgatgagaa agcccagagc 1680
tttgaggaag tgaagaagaa gaagatggag ttcctgcatg agcagatggg ccactttctg 1740
cagagcatgg acactgccaa agacaccctg gagaccatcg tgagagaagc agaggagctt 1800
gatgaggccg tcttcctgac ttcgtttgag gaaatcaatg aaaggttgct ttctgcaatg 1860
gagagcactg cttcttttaga gaaaatgcct gctgcgtttt cccttttcga acattatgat 1920
gacagctcgg caagaagtga ccagatgtta aaacaagtgg ctgttccaca gcctcctaga 1980
ttagaacctc aggaaccaaa ttctgccacc agcacaacaa ttgcagttaa ctggagcatg 2040
aacaaggaag atgtcattga ttcatttcag gtttactgca tggaggagcc acaagatgat 2100
caagaagtaa atgagttggg agaagaatac agactgacag tgaaagaaaag ctactgcatt 2160
tttgaagatc tggaaacctga ccgatgctat caagtgtggg tgatggctgt gaacttcact 2220
ggatgtagcc tgcccagtga aagggccatc tttaggacag caccctccac ccctgtgatc 2280
cgcgctgagg actgtactgt gtgttggaa acagccacta tccgatggcg gccaccacc 2340
ccagaggcca cggagacctg cactctggag tactgcagac agcactctcc tgaggagagag 2400
ggcctcagat ctttctctgg aatcaaagga ctccagctga aagttaacct ccaacccaat 2460
gataactact ttttctatgt gagggccatc aatgcatttg ggacaagtga acagagtga 2520
gctgctctca tctccaccag aggaaccaga tttctcttgt tgagagaaac agctcatcct 2580
gctctacaca tttcctcaag tgggacagt atcagctttg gtgagaggag acggctgacg 2640
gaaatcccg cagtgtctgg tgaggagctg ccttctctgt gccagcatta ctgggaaacc 2700
acagtcacag actgcccagc atategactc ggcactctgt ccagctcggc tgtgcaggca 2760
ggtgccctag gacaagggga gacctcatgg tacatgcact gctctgagcc acagagatac 2820
acatttttct acagtgggat tgtgagtgat gttcatgtga ctgagcgtcc agccagagt 2880
ggcatcctgc tggactacaa caaccagaga cttatcttca tcaacgcaga gacgcagcag 2940
ttgctcttca tcatcaggca caggttta at gaggggtgtc accctgcctt tgccctggag 3000
aaacctggaa aatgtacttt gcacctgggg atagagcccc cggattctgt aaggcacaag 3060
tgatccttgg ctttcagaat ttgcaagaac agcgatttga attttggggg ggtctgctgt 3120
tcattccttt aggtgctata cattattcaa aaagtctccc gcgcatttgc actaatgatg 3180
gctgcatgca tagcaatcag catgtgagca aaatcgacaa gaaaaccttg actttacaga 3240
gcagtgtgtg agtaaacaga atgaaaacaa caacctccac tctttagttt atataagttt 3300
gagttctttc cttaattaaa agatctacac ttgagttggg aaccgaaaaga gaaaaatgga 3360
cttccatctg ttttactggg aaaggaaatc ctctgatgga caggtcagag tgaaggaagg 3420
ttgtgctggt aagacatctc tgacgaagag ccatggatgc tttccacaaa atgtcacctc 3480
gctgcaacta aggatgatga atcctaatac ttaaaggaat tgtttcagct gatttaaatt 3540
tataatgaac tcttttgtaa taatgtatac tgtagaacat gagtctctcc tccctaaaat 3600
tttaaagtga gaaaagtgc atatataga aatttccatt ttgttaaata aatggttaga 3660
gtctataaag ccagtcatgt tatgtgaact tactccatgt aacttactgg c 3711

```

<210> 127

<211> 825

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 349084.63

<400> 127

```

tagctgggac ctggatttgc ttcctttatc gtgcgaccat gcaggccgac ctcggggggt 60
acttcgccgc agcccagagga atatggagcc cgcaatgcct gctggccaaa actacagacc 120
gtcgagccaa ggaccaggtt gaatctgtca ctttccctgc catcgtttta ggagcggctc 180
cgggcacttg cgagtgtctc gaagcagctc cgctttctct tctgtctctc catcatggcg 240
caggatcaag gtgaaaagga gaaccccatg cgggaacttc gcatccgcaa actctgtctc 300
aacatctgtg ttggggagag tggagacaga ctgacgcgag cagccaaggt gttggagcag 360
ctcacagggc agacccctgt gttttccaaa cgtagatata ctgtcagatc ctttggcatc 420
cggagaaaatg aaaagattgc tgtccactgc acagttcgag gggccaaggc agaagaaatc 480
ttggagaagg gtctaaaggt gcgggagtat gagttaagaa aaaacaactt ctgagatact 540
ggaaactttg gttttgggat ccaggaacac atcgatctgg gtatcaaata tgaccaagc 600
attggtatct acggcctgga cttctatgtg gtgctgggta ggccaggttt cagcatcgca 660
gacaagaagg cgaggacagg ctgcattggg gccaaacaca gaatcagcaa agaggaggcc 720
atgcgctggt tccagcagaa gtatgatggg atcatccttc ctggcaaata aattcccgtt 780

```

tctatccaaa agagcaataa aaagttttca gtgaaatgtg caaaa

825

<210> 128

<211> 1631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 348829.1

<400> 128

```

ctgggcctct caaagtctga gccccgctcc gctgatgcct gtctgcagaa tccgcaccaa 60
ccagcaccat gcccatgact ctgggggtact gggacatccg tgggctggcc cagcccatcc 120
gcttgctcct ggaatacaca gactcaagct atgtggaaaa gaagtacacg ctgggggacg 180
ctcctgacta tgacagaagc cagtggctga atgaaaaaatt caagctgggc ctggactttc 240
ccaatctgcc ctacttgatt gatggggctc acaagatcac ccagagcaat gccatcctgc 300
gctacattgc ccgcaagcac aacctgtgtg gggagacaga agaggagaag attcgtgtgg 360
acatttttga gaaccagggt atggataacc acatggagct ggtcagactg tgctatgacc 420
cagattttga gaaactgaag ccaaaatact tggaggaaact ccctgaaaag ctaaagctct 480
actcagagtt tctggggaag cggccatggt ttgcaggaga caagatcacc tttgtggatt 540
tccttgcta tgatgtcctt gacatgaagc gtatatattga gcccaagtgc ttggacgcct 600
tcctaaactt gaaggacttc atctcccgtt ttgagggttt gaagaagatc tctgcctaca 660
tgaagtccag ccaattcctc cgaggctctt tgtttggaaa gtcagctaca tggaacagca 720
aataggggccc agtgatgcca gaagatggga gggaggagcc aaccttgctg cctgcgaccc 780
tggaggacag cctgactccc tggacctgcc ttcttctttt ttcttctttt ctactctctt 840
ctcttcccca aggctcatt ggcttctttt ctctaacat catcctccc cgcctcagg 900
ctctttaaag cttcagctcc cactgtcctt ccatcaaagt cccctccta acgtcttctt 960
ttccctgcac taacgccaac ctgactgctt ttctgtcag tgcttttctc ttctttgaga 1020
agccagactg atctctgagc tccctagcac tgtoctcaaa gaccatctgt atgacctgct 1080
ccctttgctg ggtccctacc ccagctccgt gtgatgcccc gtaaagcctg aacctgcct 1140
gccatgtctt gtcttattcc ctgaggctcc ctgactcag gactgtgctc gaattgtggg 1200
tggttttttg tcttctgttg tccacagcca gagcttagtg gatgggtgtg tgtgtgtgtg 1260
tggtgggggt ggtgatcagg caggttcata aatttccttg gtcatttctg cctctagcc 1320
acatccctct gttcctcact gtggggatta ctacagaaag gtgctctgtg ccaagttcct 1380
cactcattct cgtcctgtga ggccgtctag aactggcacg gttcaaagag gggctaggct 1440
gatggggaag ggggctgagc agctcccagg cagactgcct tctttcacc cctctagata 1500
gacttccctg atctagatat ccttcgtcat gacacttctc aataaaacgt atcccaccgt 1560
attgtaatca tgggtactgt ttttcaccca aactcaatca taaatttatt gaagagaaaa 1620
aaaaaaaaaa a 1631

```

<210> 129

<211> 1850

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1095628.1

<400> 129

```

caaaacggcg cgcaggccgg gcgcacccag ccgccacttc cgagagcgcc tgccgcccct 60
gcgcccgcga ggccagctgc cagaatgccc gaactgggga ggaggcaaga aatgtgggggt 120
gtgtcagaag acggtttact ttgccgaaga ggttcagtgga gaaggcaaca gcttcataa 180
atcctgcttc ctgtgcatgg tctgcaagaa gaatctggac agtaccactg tggcctgca 240
tggtgaggag atttactgca agtcctgcta cggcaagaag tatgggccc aaggctatgg 300
ctacgggcag ggccgaggca ccctcagcac tgacaagggg gagtcgctgg gtatcaagca 360
cgaggaagcc cctgggccac aggccacca ccaaccccaa tgcattccaa tttgccaga 420
agattggtgg ctccgagcgc tgcccccgat cgcagccagg agtctatgct gcggagaagg 480
tgattgggtg tgggaagtcc tggcataagg cctgctttcg atgtgccaag tgtggcaag 540
gccttgagtc aaccacctg gcagacaagg atggcgagat ttactgcaaa ggatgttatg 600

```

PA-0024 US

ctaaaaactt	cgggcccag	ggctttgggt	ttgggcaagg	agctggggcc	ttgggtccact	660
ctgagtgagg	ccaccatcac	ccaccacacc	ctgcccactc	ctgcgctttt	catcgccatt	720
ccattcccag	cagcttttga	gacctccagg	attattttct	tgtcagccct	gccacatata	780
actaatgact	tgaacttggg	catctggtct	ccttttgggt	gggggtctgc	ctgaggtccc	840
accccaactaa	agggtccccc	aggcctggga	tctgacacca	tcaccagtag	gagacctcag	900
tgttttgggt	ctaggtgaga	gcaggccctt	ctccccacac	ctcgcccccac	agagctctgt	960
tcttagcctc	ctgtgctgcg	tgcccatcat	cagctgacca	agacacctga	ggacacatct	1020
tggcaccag	aggagcagca	gcaacaggct	ggagggagag	ggaagcaaga	ccaagatgag	1080
gaggggggaa	ggctgggttt	tttggatctc	agagattctc	ctctgtggga	aagaggttga	1140
gcttctctgt	gtccctcaga	gtaagcctga	ggagtcccag	cttagggagt	cactatttga	1200
ggcagagagg	catgcaggcg	gggtcctagg	agcccttctg	tctccaggcc	tcttgccctt	1260
gagtcctttgt	ggaatggata	gcctcccact	aggactggga	ggagaataac	ccaggtctta	1320
aggaccccaa	agtcaggatg	ttgtttgata	ttctcaaaac	tctagttccc	tgcttgatgg	1380
gaggatccta	atgaaatacc	tgaacatat	attggcattt	atcaatggct	caaattctca	1440
tttatctctg	gccttaaccc	tggtcctctg	ggctgcggcc	agcagagccc	aggccagggc	1500
tctgttcttg	ccacacctgc	ttgatcctca	gatgtggagg	gaggtaggca	ctgcctcagt	1560
cttcatccaa	acacctttcc	ctttgccttg	agacctcaga	atcttccctt	taaccacaaga	1620
ccctgcctct	tccactccac	ccttctccag	ggaccttag	atcacatcac	tccacctctc	1680
ccaggcccca	ggttaggaat	agtgggtggga	ggaaaggggaa	agggctgggc	ctcaccgctc	1740
ccagcaactg	aaaggacaac	actatctgga	gccaccact	gaaagggctg	caggcatggg	1800
ctgtacccaa	gctgatttct	catctggtca	ataaagctgt	ttagaccaga		1850

<210> 130

<211> 1521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1040429.6

<400> 130

agatgctggt	catggcgccc	cgaaccgtcc	tctgtctgct	ctcgggcggc	cctggccctg	60
accgagacct	gggcccggct	ccacttccat	gaggtatttc	gacaccgcca	tgccccggcc	120
cggcccgcg	gagccccgct	tcattctcagt	gggtacgtg	gacgacacgc	agttcgtgag	180
gttcgacagc	gacgcgcgca	gtccgagaga	ggagccgcgg	gcgccgtgga	tagagcagga	240
ggggccggag	tattgggacc	ggaacacaca	gatcttcaag	accaacacac	agactgaccg	300
agagagcctg	cggaaacctgc	gcggctacta	caaccagagc	gaggccgggt	ctcacacctt	360
ccagagcatg	tacggctgcg	acgtggggcc	ggacggggcg	ctcctccgcg	ggcataacca	420
gtacgcctac	gacggcaagg	attacatcgc	cctgaacgag	gacctgcgct	cctggaccgc	480
ggcggacacc	gcggctcaga	tcaccacagc	caagtgggag	gcggccccgt	tgccggagca	540
ggacagagcc	tacctggagg	gcacgtgcgt	ggagtggctc	cgcagatacc	tggagaacgg	600
gaaggacacg	ctggagcgcg	cggaccccc	aaagacacac	gtgaccacc	acccatctc	660
tgaccatgag	gccacctga	ggtgctgggc	cctgggcttc	tacctgcgg	agatcacact	720
gacctggcag	cgggatggcg	aggaccaaac	tcaggacact	gagcttgtgg	agaccagacc	780
agcaggagat	agaaccttcc	agaagtgggc	agctgtggtg	gtgccttctg	gagaagagca	840
gagatacaca	tgccatgtac	agcatgaggg	gctgccgaag	cccctgcacc	ctgagatggg	900
agcgtgtctt	ccagtccacc	gtccccactg	tgggcattgt	tgctggcctg	gctgtcctag	960
cagtttgtggt	catcgagct	gtggtcgctg	ctgtgatgtg	taggaggaag	agctcaggtg	1020
gaaaaggagg	gagctactct	caggctgcgt	gcagcgacag	tgcccagggc	tctgatgtgt	1080
ctctcacagc	ttgaaaagcc	tgagacagct	gtcttgtgag	ggactgagat	gcaggatttc	1140
ttcacgcctc	ccctttgtga	cttcaagagc	ctctggcatc	tctttctgca	aaggcacctg	1200
aatgtgtctg	cgctccctgtt	agcataatgt	gaggagggtg	agagacagcc	cacccttgtg	1260
tocactgtga	ccctgtttcc	catgctgacc	tgtgtttcct	ccccagtcac	ctttcttgtt	1320
ccagagaggt	gggctgggat	gtctccatct	ctgtctcaac	tttactgtga	ctgagctgca	1380
acttcttact	tccctactga	aaataagaat	ctgaatataa	atttgttttc	tcaaatattt	1440
gctatgagag	gttgatggat	taattaaata	agtcaattcc	tggaatttga	aagagcaaat	1500
aaagacctga	gaaccttcca	g				1521

<210> 131

<211> 1325

PA-0024 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 977410.12

<400> 131

aggactatcc	caacactact	tttttctttt	gctcttgctc	cagatttgag	aaaaagaatc	60
aagcagaggg	acaaaggata	cgttcacttc	ctgatgctga	agtggtaaca	ctttttatca	120
ttccccagaa	acctgatgtt	ttgttatgca	cttccccctt	ctggaacatt	gttctccgtg	180
ccattggccat	cctgttcttt	ttgcttatga	tcatatccat	ggtttgcagc	agtcgccgtt	240
ccagggctag	aatatccgtg	tcagtcacat	tcctgaggaa	gtaagacatg	taagtgtatg	300
ggcagttgac	agcaccaa	ccagaaagag	tcccgcgggt	ctgtctcttg	cttcaacagt	360
gtttggacgg	aacagatccg	gggactctct	tccagcctcc	gaccgccctc	cgatttctct	420
tccgcttgca	acctccggga	ccatcttctc	ggccatctcc	tgcttctggg	acctgccagc	480
accgtttttg	tggttagctc	cttcttgcca	accaaccatg	agctcccaga	ttcgtcagaa	540
ttattccaacc	gacgtggagg	cagccgtcaa	cagcctggtc	aatttgtacc	tgaggccctc	600
ctacacctac	ctctctctgg	gcttctat	cgaccgcgat	gatgtggctc	tggaaggcgt	660
gagccacttc	ttccgcgaat	tggccgagga	gaagcgcgag	ggctacgagc	gtctcctgaa	720
gatgcaaaac	cagcgtggcg	gccgcgctct	cttcaggac	atcaagaagc	cagctgaaga	780
tgagtgggggt	aaaaccccag	acgccatgaa	agctgccatg	gccctggaga	aaaagctgaa	840
ccaggccctt	ttggatcttc	atgccctggg	ttctgcccgc	acggaccccc	atctctgtga	900
cttccctggag	actcacttcc	tagatgagga	agtgaagctt	atcaagaaga	tgggtgacca	960
cctgaccaac	ctccacaggc	tgggtggccc	ggaggctggg	ctgggcgagt	atctcttcga	1020
aaggctcact	ctcaagcacg	actaagagcc	ttctgagccc	agcgacttct	gaagggcccc	1080
ttgcaaagta	atagggcttc	tgccaaagcc	tctccctcca	gccaataggc	agctttctta	1140
actatcctaa	caagccttgg	accaaattga	aataaagctt	tctgtttctt	ggtgatctgt	1200
tcaaaatttc	atcctctctc	gcttttaggt	ttctgtcttc	ctcctcttga	ctgacagtgc	1260
caccatcttc	ttcagcatca	cttttctgtg	tctcttcaag	tgtctcttct	ccttctctct	1320
cctca						1325

<210> 132

<211> 1513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 207667.8

<400> 132

cgactcgggt	cgagcggctc	gaggagcttg	caggggccgt	ccctcacc	gcccccttcg	60
agtccccggg	cttcgcccc	ccgggccgt	gggggagtat	ctgtcctgcc	gccttcgccc	120
acgccctgca	ctccggggac	cgctcctg	cgctctgggg	cgcaccatgg	gcccgcgggg	180
ctggcgctgg	gcgctgctgc	tcttcggcct	gctgggtgtt	ctggctgccg	ccccggatgg	240
tggtttcgat	ttatccgatg	cccttctctga	caatgaaaac	aagaaaccca	ctgcaatccc	300
caagaaaccc	agtgtgggg	atgactttga	cttaggagat	gctgttgttg	atggagaaaa	360
tgacgaccca	cgaccaccga	acccacccaa	accgatgcca	aatccaaacc	ccaaccaccc	420
tagttcctcc	ggtagctttt	cagatgctga	ccttgccgat	ggcgtttcag	gtggagaagg	480
aaaaggaggc	agtgatggg	gaggcagcca	caggaaagaa	ggggaagagg	ccgacgcccc	540
aggcgtgatc	cccgggattg	tgggggctgt	cgtggctgcc	gtggctggag	ccatctctag	600
cttcattgct	taccagaaaa	agaagctatg	cttcaaagaa	aatgacgacc	cacgaccacc	660
gaacccaccc	aaaccgatgc	caaatccaaa	ccccaccac	cctagtctct	ccggtagctg	720
ttcagatgct	gaccctgcg	atggcgtttc	aggtggagaa	ggaaaaggag	gcagagatgg	780
tggaggcagc	cacaggaaag	aaggggaaga	ggccgacgcc	ccaggcgtga	tccccgggat	840
tgtgggggct	gtcgtggctg	ccgtggctgg	agccatctct	agcttcattg	cttaccagaa	900
aaagaagcta	tgcttcaaag	aaaatgcaga	acaaggggag	gtggacatgg	agagccaccg	960
gaatgccaac	gcagagccag	ctgttcagcg	tactctttta	gagaaataga	agattgtcgg	1020
cagaaacagc	ccaggcgttg	gcagcagggt	tagaacagct	gcctgaggct	cctccctgaa	1080
ggacacctgc	ctgagagcag	agatggagge	cttctgttca	cggcggattc	tttgttttaa	1140

PA-0024 US

tcttgcgatg	tgctttgctt	gttgetgggc	ggatgatgtt	tactaacgat	gaattttaca	1200
tccaaagggg	gaataggcac	ttggaccccc	attctccaag	gcccgggggg	gcggtttccc	1260
atgggatgtg	aaaggctggc	cattattaag	tccctgtaac	tcaaagtgtca	accccaccga	1320
ggcaccccc	cgtcccccag	aatcttggct	gtttacaaat	cacgtgtcca	tcgagcacgt	1380
ctgaaacccc	tggtagcccc	gacttctttt	taattaaat	aaggttaagc	cttcaatttg	1440
tttcttcaat	atttctttca	tttgtaggga	tatttgtttt	tcatatcaga	ctaataaaaa	1500
gaaattagaa	acc					1513

<210> 133

<211> 8734

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 256009.4

<220>

<221> unsure

<222> 500

<223> a, t, c, g, or other

<400> 133

ggtgagtgga	agggacccca	agtctctctt	gctctcaact	tggacacatc	taagtttgct	60
gggggccttc	atttctcagg	accaaagggtg	gaaggagggtg	tgaaaaggagg	tcagattgga	120
ctccaggctc	ctgggctgag	tgtgtctggg	cctcaagggtc	acttggaag	tggatctgga	180
aaagtaacat	tccctaaaat	gaagatcccc	aaatttacct	tctctggccg	tgagctgggt	240
ggcagagaaa	tgggggtgga	tgtcacttcc	ctaaagcaga	ggccagcatc	caagctgggtg	300
ctggagacgg	cgagtgggaa	gagtctgaag	tcaaactgaa	aaagtccaag	tttaaaatgc	360
ctttcctgag	tatttcattc	cccaaagtgtt	ctatgcctga	cgtggagcta	aatttgaaag	420
gtcccaaat	caagatgcct	gacatgaata	tcaaagctcc	caagatctcc	atgcctgata	480
ttgacttaaa	cttgaaaggn	cccaaagtga	agggcgatgt	ggatgtttct	ctgccccaaa	540
tggaagggtga	cctcaagggtc	ccagaagctg	acatcaagggt	ccccaaagtg	gacattaatg	600
ctccagatgt	tgatgttcaa	ggcccagact	ggcacctgaa	gatgcccagg	gtgaaaatgc	660
ccaagtccag	catgcctggc	ttcaaaggag	agggcccaga	tgtggatgtg	aacctgcccc	720
aggctgacct	tgatgtctca	ggacccaagg	tggacattga	tgttcagat	gtgaatatcg	780
aaggcccaga	gggaaaagttg	aaagggtccca	aattcaagat	gcctgagatg	aacatcaaag	840
cccccaagat	ctccatgcct	gacattgac	ttaacctgaa	aggacccaaa	gtgaagggtg	900
atatggatgt	gtctctgcca	aaagtggag	gtgacatgca	agttcctgac	ttggatatta	960
aaggccccc	agtggatatt	aatgccccag	atgtggatgt	tcgaggccca	gactggcacc	1020
tgaagatgcc	taagataaaa	atgcccaga	tcagcatgcc	tggcttcaaa	ggagaagggtc	1080
cagaagtgga	tgtgaacctg	cccaaggctg	acctgacgt	ctcaggaccc	aagggtggacg	1140
ttgatgttcc	agatgtgaat	attgaagggtc	cagatgcgaa	actgaagggtc	cctaaattca	1200
agatgccaga	gatgaacatc	aaagccccca	agatctccat	gcctgacttt	gatttgcac	1260
tgaaaggccc	taagggtgaa	ggagatgtgg	atgtttctct	gcctaagatg	gaagggtgatc	1320
taaaggcccc	tgaagttgac	atcaagggtc	ccaaagtggg	cattgatgcc	ccagatgtgg	1380
atgttcatgg	cccagactgg	cacctgaaga	tgcccagggt	gaaaatgccc	aaattcagca	1440
tgccaggatt	taaaggagag	ggcccagaag	tggatgttaa	tttgcccaa	gctgacattg	1500
atgtctcagg	acccaaagtg	gacattgaca	ctctgatata	tgatattcat	ggtccagaag	1560
ggaaactgaa	gggccccaaa	tttaaaatgc	ctgacctgca	cctcaaggca	ccgaagatct	1620
ctatgcctga	agttgacctg	aatctgaaag	gtccaaagat	gaagggtgac	gtggacgttt	1680
ctctgccc	agtgggaaggc	gacctcaagg	gacctgaagt	tgacatcaag	ggccccaaag	1740
tggacattga	tgtcccagat	gtggacgttc	aaggcccaga	ctggcactta	aaaatgcccc	1800
aagtgaataat	gcccgaagttc	agcatgcctg	gcttcaaagg	agagggtccca	gatgtggatg	1860
tgaacctgcc	caaggctgac	cttgacgtct	caggacccaa	ggtgtgacatt	gatgttctgt	1920
atgtgaatat	cgaagggtcca	gatgcaaac	taaagggtccc	taaattcaag	atgcctgaga	1980
tgaacatcaa	agcccccaag	atctccatgc	ctgactttga	tttgcatctg	aaagggtccca	2040
aggtgaagggt	tgatgtggat	gtttcccttc	ctaaagtggg	aggtgacctc	aagggtccag	2100
aagttgacat	caagggtccc	aaagtggaca	tcgatgcccc	tgatgtagat	gttcatggcc	2160
cagactggca	cctgaagatg	cccaagggtga	aatgccc	attcagcatg	ccaggattca	2220
aaggagagtg	cccagatgtg	gatgtttacc	ttcctaaggc	tgacattgag	atttctggcc	2280

ccaaagtgga	cattgatgcc	cctgatgtca	gtatcgaagg	tccagatgca	aaactcaagg	2340
gtccaaagtt	caagatgcca	gagatgaaca	tcaaggcccc	caaaatctcc	atgcctgaca	2400
ttgactttta	cttgaagggt	cccaaagtga	aagggtgatgt	ggatgtctct	ctgccccaaag	2460
tggaaagggtga	tctcaagggt	cctgaaattg	acataaaaagg	ccccagtttg	gacattgaca	2520
cacctgatgt	caatattgaa	ggtccggaag	gaaaattgaa	ggggcccaaa	tttaagatgc	2580
ctgagatgaa	catcaaagct	cccaaatct	ctatgcctga	ctttgatttg	cacctgaaag	2640
gtcccaagggt	gaagggtgat	gtggatgttt	cactacctaa	ggtggaaagt	gatctgaaag	2700
ggccagaggt	agacattgaa	ggtcctgaag	ggaagctcaa	aggtcccaag	tttaagatgc	2760
ctgatgtaca	tttcaaaagc	ccacaaatct	ccatgagtga	cattgatttg	aatttgaaag	2820
gacctaaagat	aaaaggagat	atggacattt	cctgtcctaa	actggaggga	gatctgaaag	2880
gtcccaaaagt	ggatgtcaaa	ggccctaaag	tgggcattga	cactcctgat	attgacattc	2940
atggttcaga	agggaaactg	aagggcccca	aatttaaaat	gcctgactta	cacctcaagg	3000
caccgaagat	ctctatgcct	gaagttgacc	tgaatctgaa	aggtccaaag	gtgaagggtg	3060
acatggacat	ttctctgccc	aaagtggaaag	gagacctcaa	gggccccgaa	gttgacatca	3120
gggacccccaa	agtggacatt	gatgtccag	atgtggacgt	tcaaggccca	gactggcacc	3180
taaaaatgcc	caaagtgaag	atgccccagt	tcagcatgcc	tggcttcaaa	ggagagggtcc	3240
cagatgtgga	tgtgaacctg	cccaaggctg	acattgatgt	ctcaggaccc	aaagtggacg	3300
ttgatgttcc	tgatgtgaat	atcgaagggt	cagatgcgaa	actaaagggt	cccaagttca	3360
agatgcctga	gatgagcatc	aaagccccc	agatctccat	gcctgatatt	gacttaaacc	3420
tgaaggacc	caaagtgaag	ggcgatgtgg	atgttaccct	tcctaaagtg	gaagggtgacc	3480
tcaagggtccc	agaagctgac	atcaagggtc	caaaagtgga	catcaacacc	cctgatgtgg	3540
atgttcatgg	cccagactgg	cacctgaaga	tgccccaaagt	gaaaatgccc	aaattcagca	3600
tgcctggctt	caaaggagag	ggcccagatg	tggatgtgaa	cctgccccag	gctgacattg	3660
atgtctcagg	acccaaagtg	gacgttgatg	ttcctgatgt	gaatatcgaa	ggtccagatg	3720
cgaaaactaaa	ggggcccaag	ttcaagatgc	ctgagatgag	catcaaagcc	cccaagatct	3780
ccatgcctga	tattgactta	aacctgaaag	gacccaaagt	gaagggtgat	gtggatgtta	3840
cccttcctaa	agtggaaagt	gacctcaagg	gcccagaagc	tgacatcaag	ggcccaaaag	3900
tggacatcaa	cacctctgat	gtggatgttc	atggcccgaa	ctggcacctg	aagatgcccc	3960
aggtgaaaaat	gccccaaattc	agcatgcctg	gcttcaaaag	agaagggtcca	gatgtggatg	4020
tgagcctgac	caaggccgac	atcgatgtct	ggggacccaa	ggtggacgtt	gatattccag	4080
atgtacatcat	cgaagggtcca	gacgcaaaac	tgaagggtccc	caagttcaag	atgcctgaaa	4140
taaatatcaa	agctcccaag	atctccatac	ctgatgttga	cctggatttg	aaaggaccca	4200
aagtaaaagg	agattttgat	gtgtctgtcc	ctaagggtga	agggtacttg	aaaggccag	4260
aagtagatct	taaagggtcca	cgtctggatt	tcgaaggccc	tgatgcaaaa	ctcagtggcc	4320
catctttgaa	gatgccatcg	ctggagatat	ctgctcctaa	agtaactgct	cctgatgttg	4380
atttgcacat	caaggcacca	aaaattggat	ttcagggtcc	gaagttagaa	ggtgggtgaag	4440
tggacctcaa	gggacccaaa	gttgaagctc	caagcttaga	gtacacatg	gacagccag	4500
atattaacat	cgaagggtcca	gatgttataa	tccccaaatt	taagaaaccc	aagtttgat	4560
ttggggcaaa	aagccccaaa	gctgacatca	agtcaccttc	actggatgtc	actgttctctg	4620
aggcagagct	gaaccttgag	actcctgaaa	ttagtggttg	tggcaagggtc	aagaaaagta	4680
agtttaaaat	gcctaaaatt	catatgagtg	gtcctaagat	taaggccaaa	aaacagggtat	4740
ttgacctgaa	tgttctgtgg	ggtgaaattg	atgccagcct	caaggctccg	gatgtagatg	4800
tcaacatcgc	agggtccgat	gctgcactca	aagtcagcgt	gaaatcgccc	aaaaccaaga	4860
aaacgatgtt	tggaaaaatg	tacttcccag	atgtagagtt	tgacattaaa	tcacctaaat	4920
ttaaagctga	ggccccctctc	cctagcccca	aactggagggt	tgaactccag	gcacctgatc	4980
tggaaactttc	tttgccagcg	attcacgtcg	aagggtcttga	catcaagggtc	aagggtccca	5040
aggtcaagat	gccagatgtg	gacatctcag	tgccaaaaat	agagggtgac	ctgaaagggtc	5100
ccaaagtgca	ggcaaaacttg	ggtgcacctc	acatcaacat	cgaaggccta	gatgctaaag	5160
tcaaaaacacc	gtccttcggc	atttctgccc	ctcaagttct	catccctgat	gtgaatgtaa	5220
acttgaaagg	accaaagata	aagggtgatg	tccccagcgt	gggactggaa	ggaccagatg	5280
tagatctgca	aggtccagaa	gcaaaaatta	agttccccaa	gttttccatg	cccaagatcg	5340
gcacccaggt	tgtgaaaatg	gagggtgggg	gagccgaggt	ccatgccag	ctacctctctc	5400
ttgaaggaga	cttgagagga	ccagatgtta	agctcgaagg	gcccgatgtt	tctctaaagg	5460
ggccaggagt	agacttgctt	tcagtgaacc	tctctatgcc	aaaagtctct	gggcctgacc	5520
ttgatctgaa	cttgaaagga	ccaagtttga	aggagacctc	ggatgcattc	gttcccagca	5580
tgaagggtgca	tgctccagggt	ctcaacctca	gtggtgtcgg	tggcaaaatg	cagggtgggag	5640
gagacggtgt	gaaagtgcc	gggatcgatg	ccacaacaaa	gcttaacgtt	ggggcaccag	5700
atgtgacact	gaggggacca	agcctgcagg	gagatctggc	tgtctctggt	gacatcaaat	5760
gccctaaaagt	atccgttagga	gctcctgatc	taagcttggg	ggcatccgaa	ggcagcatta	5820
aacttcccaa	aatgaagctg	ccccaatttg	gcattctctac	tccgggtgcc	gacttgcacg	5880
tcaatgccaa	ggggccacag	gtttctggcg	aactgaagggt	gccaggtgtg	gatgtgaacc	5940

tgaaagggcc	tgggatttca	gcaccgaatg	tggactttta	cttgggaagga	ccaaaagtga	6000
aagggagcct	tggggccact	ggtgagatca	aaggcccccac	tgtcggagga	ggtcttccag	6060
gcattggtgt	tcaaggccta	gaaggaaacc	tccagatgcc	tggaattaag	tcctctggat	6120
gtgatgtgaa	cctgccaggc	gtgaatgtga	aactcccaac	tgggcagatt	tctgggcctg	6180
aaatcaaagg	tggctctgaaa	ggttcagaag	taggtttcca	tggggctgct	cctgatataca	6240
gtgtgaaggg	gcctgccttt	aatatggcat	ctcctgagtc	agattttggc	atcaacttga	6300
agggcccaaa	aatcaaagga	ggtgcggatg	tttcaggggg	tgtcagtgcc	ccagacatca	6360
gccttggtga	agggcatttg	agtgttaaag	gttccggggg	tgagtggaag	ggaccccaag	6420
tctcctctgc	tctcaacttg	gacacatcta	agtttgctgg	gggccttcac	ttctcaggac	6480
caaagggtga	aggaggtgtg	aaaggaggtc	agattggact	ccaggctcct	gggctgagtg	6540
tgtctggggc	tcaaggtcac	ttggaaagtg	gatctggaaa	agtaacattc	cctaaaatga	6600
agatccccaa	atttaccttc	tctggccgtg	agctgggtgg	cagagaaatg	ggggtggatg	6660
ttcacttccc	taaagcagag	gccagcatcc	aagctgggtg	tggagacggc	gagtggggaag	6720
agtctgaagt	caaactgaaa	aagtccaaga	tcaaaatgcc	caagtttaat	ttttccaaac	6780
ctaaagggaa	aggtggtgtc	actggctcac	cagaagcatc	aatttctggg	tccaaagggtg	6840
acctgaaaag	ttcaaaggcc	agcctgggct	ctctggaagg	agaggcagag	gccgaagcct	6900
cttcaccgaa	aggcaaattc	tccttatttta	aaagtaagaa	gccacggcac	cgctcaaatt	6960
cattcagtga	tgaagagag	ttctctggac	cttccacccc	gacggggacg	ctggagtttg	7020
aaggtggggg	agtgtctctg	gaaggtggga	aagttaaagg	gaaacacggg	aagctgaaat	7080
tcggtacctt	tgggtggattg	gggtcaaaga	gcaaagggtc	ttatgaggtg	actgggagcg	7140
atgatgagac	aggcaagtta	caggggagtg	gggtgtccct	ggcctctaag	aagtcccgac	7200
tgctctctc	ttctagcaat	gacagtggga	ataagggttg	catccagctt	cccagaggtg	7260
agctgtcagt	ttccacaaag	aaagagtagc	aggcctttgt	atgtgtgtac	atatatatat	7320
atataacaaa	acatcagcct	tgggtgggtg	gttctgtatat	aaactccaaa	gggaaacaca	7380
ccgactgcct	cagcaatcat	gcaaagacct	tgcttggccc	ggtggcaagc	gctgaaaaac	7440
cgaccgcctg	taggtctctg	gaactataca	gataggtaaa	gagttccaag	ttcgtccagc	7500
ccatgtgcaa	agtcaacagt	atthgcctta	agatttcata	tatatatatt	tttttgcat	7560
gactgctgag	agtcctgtt	tactaagcaa	gcttttgtgt	ttattatcct	catttttact	7620
gaacattgtt	agtthtgggg	taatggaaac	ccactttttc	attgtaatga	ctttgggggc	7680
ttttgttagt	aaggggtggg	ggggtgatgg	ggtgcagacg	gaggtcaggt	cttctctttt	7740
cctgagactg	gatctgttca	aacagcaaac	gcccacagat	ggcccagagg	tgggtgtagt	7800
caggggtgtg	gggtgttttt	agggttcttt	agtgttgttt	ctttcaccca	gggggtgggtg	7860
tcccagccag	tttggtgctg	acgggtgagag	gaaattagaa	tctgtttgca	aattgtccaa	7920
cccaccccct	caacatgagg	ggcttccatt	ttctgtgttt	tgtaagggaa	ctgtttcctt	7980
catgccgccca	tgttctctgat	attagttctg	atthcttttt	aacaaatgtt	atcatgatta	8040
agaaaatttc	cagcacttta	atggccaatt	aactgagaat	gtaagaaaat	tgatgctgta	8100
caaggcaaat	aaagctgttt	attaaccttg	tacagcatca	atthtcttac	atthtctgtg	8160
ttttgtaagg	gaactgtttc	cttcatgcgc	ccatgttctt	gatattagtt	ctgatttctt	8220
tttaacaaat	gttatcatga	ttaagaaaat	ttccagcact	ttaatggcct	attggtactt	8280
tgggggtgctg	atacccaaaa	cagatgcaat	cttctctcca	aggaagtcac	acactgagag	8340
agttgatgta	gcagcccga	gcagtgtaaa	ccataagtag	ggaccccagg	taagttttgt	8400
cggatcaaca	gtaggcaaaa	catctttctt	ctccaggcca	tcaacttcgt	cttcatctgt	8460
gctatatctt	tccattgttt	caccactaac	aaagtggatg	actctccttg	ggactttctt	8520
cttttttctt	atgactccca	gttctacatt	ttcaaagcct	ctttcgttac	tcacttgcca	8580
tataacctga	gcgcccgcgc	ggccacgaca	cgaggaattc	gcccacgcag	gaggcgcggc	8640
gctccggagg	cccagggtt	atgagactat	cactgctcag	gacctactaa	caacaaagat	8700
ttaattaaga	tataagatgt	aaattgatac	aagt			8734

<210> 134

<211> 4530

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 364726.12

<400> 134

cggggtcggca	ccccggcggt	tgggctgcgg	gtcagagcac	tgtccgggtg	tgcccaggag	60
gagtaggagc	aggagcagaa	gcagaagcgg	ggtccggagc	tgccgcgcta	cgccggacct	120
gtgtccgaaa	tgccgtgtgc	aggagaccgc	gggtttccac	cccggcggga	gctgtcaggt	180

tggtccgcg	ccccagcat	ggaagagctg	atatgggaac	agtacactgt	gacctacaa	240
aaggattcca	aaagaggatt	tggaattgca	gtgtccggag	gcagagacaa	ccccacttt	300
gaaaatggag	aaacgtcaat	tgatctttct	gatgtgctcc	cgggtgggccc	tgctgatggg	360
ctgctccaag	aaaatgacag	agtgggtcatg	gtcaatggca	cccccatgga	ggatgtgctt	420
cattcgtttg	cagttcagca	gtcagaaaa	agtgggaagg	tcgctgctat	tgtgggtcaag	480
aggccccgga	aggtccaggt	ggccgcactt	caggccagcc	ctcccctgga	tcaggatgac	540
cgggcttttg	aggtgatgga	cgagtttgat	ggcagaagtt	tccggagtgg	ctacagcgag	600
aggagccggc	tgaacagcca	tggggggcgc	agccgcagct	gggaggacag	cccggaagg	660
gggctgcccc	atgagcgggc	ccggagccgg	gagcgggacc	tcagccggga	ccggagccgt	720
ggccggagcc	tggagcgggg	cctggaccaa	gacctgccc	gcacccgaga	ccgcagccgt	780
ggccggagcc	tggagcgggg	cctggaccac	gactttgggc	catcccggga	ccgggaccgt	840
gaccgcagcc	gcggccggag	cattgaccag	gactgcagc	gagcctatca	ccgggcctac	900
gaccagact	acgagcgggc	ctacagcccc	gagtacaggc	gcggggcccc	ccacgatgcc	960
cgctctcggg	gaccccgaa	ccgcagccgc	gagcaccgc	actcacggag	ccccagcccc	1020
gagcctaggg	ggcggccggg	gcccctcggg	gtcctcctga	tgaaaagcag	agcgaacgaa	1080
gagtatggtc	tccggcttgg	gagtcagatc	ttcgtaaagg	aaatgacccg	aacgggtctg	1140
gcaactaaag	atggcaacct	tcacgaagga	gacataattc	tcaagatcaa	tgggactgta	1200
actgagaaca	tgctcttaac	ggatgctcga	aaattgatag	aaaagtcaag	aggaaaacta	1260
cagctagtgg	tggtgagaga	cagccagcag	accctcatca	acatcccgtc	attaaatgac	1320
agtgactcag	aaatagaaga	tatttcagaa	atagagtcaa	accgatcatt	ttctccagag	1380
gagagacgtc	atcagtattc	tgattatgat	tatcattcct	caagtgagaa	gctgaaggaa	1440
aggccaagtt	ccagagagga	cacgccgagc	agattgtcca	ggatgggtgc	gacacccact	1500
ccctttaagt	ccacagggga	tattgcaggc	acagttgtcc	cagagaccaa	caaggaacct	1560
agataccaa	aggaccccc	agctcctcaa	ccaaaagcag	ccccgagaac	tttctctcgt	1620
cctagtctcg	aagatgaagc	aatatatggc	cctaatacca	aaatggtaag	gttcaagaag	1680
ggagacagcg	tgggcctccg	gttggctggg	ggcaatgatg	tcgggatatt	tggtgctggc	1740
attcaagaag	ggacctcggc	ggagcaggag	ggccttcaag	aaggagacca	gattctgaag	1800
gtgaacacac	aggatttcag	aggattagtg	cgggaggatg	ccgttctcta	cctgttagaa	1860
atccctaaag	gtgaaatggg	gaccatttta	gttcagagcc	gagccgatgt	gtatagagac	1920
atcctggctt	gtggcagagg	ggattcgttt	tttataagaa	gccactttga	atgtgagaag	1980
gaaactccac	agagcctggc	cttcaccaga	ggggagggtc	tccgagtggg	agacacactg	2040
tatgacggca	agctgggcaa	ctggctggct	gtgaggattg	ggaacgagtt	ggagaaaggc	2100
ttaatcccca	acaagagcag	agctgaacaa	atggccagtg	ttcaaaatgc	ccagagagac	2160
aacgctgggg	accgggcaga	tttctggaga	atgcgtggcc	agaggctctg	ggtgaagaag	2220
aacctgagga	aaagtccggg	agacctcaca	gctgttgtgt	ctgtcagcac	caagttccca	2280
gcttatgaga	gggttttgct	gcgagaagct	ggtttcaaga	gacctgtggg	cttattccgc	2340
cccatagctg	atatagcaat	ggaaaaattg	gctaattgag	tacctgactg	gtttcaaact	2400
gctaaaacgg	aaccaaaaga	tgcaggatct	gagaaatcca	ctggagtggg	ccggttaaat	2460
accgtgaggc	aagttattga	acaggataag	catgcactac	tggtatgtgac	tccgaaagct	2520
gtggacctgt	tgaattacac	ccagtgggtc	tcaattgtga	tttctttcac	gccagactcc	2580
agacaagggt	tcaacaccat	gagacaaagg	ttagacccaa	cgtccaacaa	aagttctcga	2640
aagttatttg	atcaagccaa	caagcttaaa	aaaacgtgtg	cacacctttt	tacagctaca	2700
atcacacctaa	attcagccaa	tgatagctgg	tttggcagct	taaaggacac	tattcagcat	2760
cagcaaggag	aagcggtttg	ggtctctgaa	ggaaagatgg	aagggatgga	tgatgacccc	2820
gaagaccgca	tgctctactt	aaccgccatg	ggcggggact	atctgagttg	cgacagccgc	2880
ctcatcagtg	actttgaaga	cacggacggt	gaaggaggcg	cctacactga	caatgagctg	2940
gatgagccag	ccgaggagcc	gctgggtgtc	tccatcacc	gctcctcggg	gccggtgcag	3000
cacgaggaga	gcataaggaa	acccagccca	gagccacgag	ctcagatgag	gagggctgct	3060
agcagcgatc	aacttaggga	caatagcccc	ccccagcat	tcaagccaga	gccgcccaag	3120
gccccaaacc	agaacaaaga	agaatcctat	gacttctcca	aatcctatga	atataagtca	3180
aacccctctg	ccgttgctgg	taatgaaact	cctggggcat	ctaccaaagg	ttatcctcct	3240
cctgttgagc	caaaacctac	ctttggggcg	tctatactga	agccctccac	tcccatccct	3300
cctcaagagg	gtgaggaggt	gggagagagc	agtgaggagc	aagataaatgc	tcccaaatca	3360
gtcctggggc	aagtcaaaat	atttgagaag	atggatcaca	aggccaggtt	acagagaatg	3420
caggagctcc	aggaagcaca	gaatgcaagg	atcgaaattg	cccagaagca	tctgatatac	3480
tatgcagttc	caatcaaaac	gcacaagcca	gacctgggca	cgccccagca	cacgagttcc	3540
agacccctcg	agccacagaa	agctccttcc	agaccttatc	aggataaccag	aggaagttat	3600
ggcagtgatg	ccgaggagga	ggagtaccgc	cagcagctgt	cagaacactc	caagcgcggt	3660
tactatggcc	agtctgcccc	ataccgggac	acagaattat	agatgtctga	gcacggactc	3720
tcccaggcct	gcctgcatgg	catcagacta	gccactcctg	ccaggccgcc	gggatgggtc	3780
ttctccagct	agaatgcacc	atggagacgt	ggtgggactc	cagctcgtgt	gtcctcatgg	3840

PA-0024 US

agaacccagg	ggacagctgg	tgcaaattca	gaactgaggg	ctctgtttgt	gggactgggt	3900
tagaggagtc	tgtggctttt	tgttcagaat	taagcagaac	actgcagtca	gatcctgtta	3960
cttgcttcag	tggaccgaaa	tctgtattct	gtttgcgtag	ttgtaatatg	tatattaaga	4020
agcaataact	atttttcctc	attaatagct	gccttcaagg	actgtttcag	tgtgagtcag	4080
aatgtgaaaa	aggaataaaa	aatactgttg	ggctcaaaact	aaattcaaag	aagtacttta	4140
ttgcaactct	tttaagtgcc	ttggatgaga	agtgtcttaa	attttcttcc	tttgaagctt	4200
taggcagagc	cataatggac	taaaacattt	tgactaagtt	tttataccag	cttaatagct	4260
gtagttttcc	ctgcactgtg	tcattctttt	aaggcatttg	tctttgtaat	attttccata	4320
aatttggaact	gtctatatca	taactatact	tgatagtttg	gctataagtg	ctcaatagct	4380
tgaagcccaa	gaagtgggta	tcgaaatttg	ttgtttgttt	aaaccaagt	gctgcacaaa	4440
agcagatact	tgaggaaaac	actattttcca	aaagcacatg	tattgacaac	agttttataa	4500
tttaataaaa	aggaatacat	tgcaatccgt				4530

<210> 135

<211> 8044

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 427813.14

<400> 135

cggctcgagc	cggctgtgct	gcacaggggg	aggagagggga	accccaggcg	cgagcgggaa	60
gaggggacct	gcagccacaa	cttctctggt	cctctgcata	ccttctgtcc	ctccaccggt	120
ccccctcccc	accctctggc	ccccaccttc	ttggaggcga	caacccccgg	gaggcattag	180
aagggatttt	tcccgaggt	tgcaagggga	agcaaaacttg	gtggcaactt	gcctcccgggt	240
gcgggcgctct	ctccccacc	gtctcaacat	gcttaggggt	ccggggcccg	ggctgctgct	300
gctggccgtg	ctgtgacctg	ggacagcggt	gccctccacg	ggagcctcga	agagcaagag	360
gcaggctcag	caaatgggtc	agccccagtc	cccgggtggt	gtcagtcaaa	gcaagcccggt	420
ttgttatgac	aatggaaaac	actatcagat	aaatcaacag	tgggagcgga	cctacacaga	480
caatgcgttg	gtttgtactt	gttatggagg	aagccgaggt	tttaactgcg	agagtaaacc	540
tgaagctgaa	gagacttgct	ttgacaagta	cactgggaac	acttaccgag	tgggtgacac	600
ttatgagcgt	cctaaagact	ccatgatctg	ggactgtacc	tgcattgggg	ctgggcgagg	660
gagaataagc	tgtaccatcg	caaaccgctg	ccatgaaggg	ggtcagtcct	acaagattgg	720
tgacacctgg	aggagaccac	atgagactgg	tggttacatg	ttagagtgtg	tgtgtcttgg	780
taatggaaaa	ggagaatgga	cctgcaagcc	catagctgag	aagtgttttg	atcatgctgc	840
tgggacttcc	tatgtggctg	gagaaacgtg	ggagaagccc	taccaaggct	ggatgatgggt	900
agattgtact	tgcttgggag	aaggcagcgg	acgcatact	tgcacttcta	gaaatagatg	960
caacgatcag	gacacaagga	catcctatag	aattggagac	acctggagca	agaaggataa	1020
tcgaggaaac	ctgctccagt	gcattctgcac	aggcaacggc	cgaggagagt	ggaagtgtga	1080
gaggcacacc	tctgtgcaga	ccacatcgag	cggattctggc	cccttcaccg	atgttcgtgc	1140
agctgtttac	caaccgcagc	ctcaccccca	gcctctccc	tatggccact	gtgtcacaga	1200
cagtgggtgtg	gtctactctg	tggggatgca	gtggctgaag	acacaaggaa	ataagcaaat	1260
gctttgcacg	tgcttgggca	acggagtcag	ctgccaagag	acagctgtaa	cccagactta	1320
cgggtggcaac	tcaaattggag	agccatgtgt	cttaccattc	acctacaatg	gcaggacgtt	1380
ctactcctgc	accacagaag	ggcgacagga	cggacatctt	tggtgcagca	caacttcgaa	1440
ttatgagcag	gaccagaaat	actctttctg	cacagaccac	actgttttgg	ttcagactcg	1500
aggaggaaat	tccaatgggtg	ccttgtgcca	cttccccttc	ctatacaaca	accacaatta	1560
cactgattgc	acttctgagg	gcagaagaga	caacatgaag	tggtgtggga	ccacacagaa	1620
ctatgatgcc	gaccagaagt	ttgggttctg	ccccatggct	gcccacgagg	aaatctgcac	1680
aaccaatgaa	gggtcatgt	accgcatttg	agatcagtg	gataagcagc	atgacatggg	1740
tcacatgatg	aggtgcacgt	gtgttgggaa	tggtcgtggg	gaatggacat	gcattgccta	1800
ctcgcagctt	cgagatcagt	gcattgttga	tgacatcact	tacaatgtga	acgacacatt	1860
ccacaagcgt	catgaagagg	ggcacatgct	gaactgtaca	tgcttcggtc	agggtcgggg	1920
cagggtggaag	tgtgatcccc	tcgaccaatg	ccaggattca	gagactggga	cgttttatca	1980
aattggagat	tcatggggaga	agtatgtgca	tggtgtcaga	taccagtgt	actgctatgg	2040
ccgtggcatt	ggggagtggc	attgccaacc	tttacagacc	tatccaagct	caagtgggtc	2100
tgtcgaagta	tttatcactg	agactccgag	tcagcccaac	tcccaccca	tccagtggaa	2160
tgcaccacag	ccatctcaca	tttccaagta	cattctcagg	tggagaccta	aaaattctgt	2220
aggccgtttg	aaggacgcta	ccataccagg	ccacttaaac	tcctacacca	tcaaaggcct	2280

gaagcctggt	gtggtatagc	agggccagct	catcagcatc	cagcagtagc	gccaccaaga	2340
agtgactcgc	tttgacttca	ccaccaccag	caccagcaca	cctgtgacca	gcaacaccgt	2400
gacaggagag	acgactccct	tttctcctct	tgtggccact	tctgaatctg	tgaccgaaat	2460
cacagccagt	agctttgtgg	tctcctgggt	ctcagcttcc	gacaccgtgt	cggtattccg	2520
ggtggaatat	gagctgagtg	aggagggaga	tgagccacag	tacctggatc	ttccaagcac	2580
agccacttct	gtgaacatcc	ctgacctgct	tctggccga	aaatacattg	taaatgtcta	2640
tcagatatct	gaggatgggg	agcagagttt	gatcctgtct	acttcacaaa	caacagcgcc	2700
tgatgcccc	cctgaccgca	ctgtggacca	agttgatgac	acctcaattg	ttgttcgctg	2760
gagcagaccc	caggctccca	tcacagggta	cagaatagtc	tattcgccat	cagtagaagg	2820
tagcagcaca	gaactcaacc	ttcctgaaac	tgcaaacctc	gtcacctca	gtgacttgca	2880
acctggtgtt	cagtataaca	tcactatcta	tgtgtggaa	gaaaatcaag	aaagtacacc	2940
tgttgtcatt	caacaagaaa	ccactggcac	cccacgtca	gatacagtcg	cctctcccag	3000
ggacctgcag	tttgtggaag	tgacagacgt	gaaggtcacc	atcatgtgga	caccgcctga	3060
gagtgcagtg	accggtacc	gtgtggatgt	gatccccgtc	aacctgcctg	gcgagcacgg	3120
gcagaggctg	cccatcagca	ggaacacctt	tgcagaagtc	accgggctgt	ccccgggggt	3180
cacctattac	ttcaaagtct	ttgcagtgag	ccatgggagg	gagagcaagc	ctctgactgc	3240
tcaacagaca	accaaactgg	atgctcccac	taacctccag	tttgtcaatg	aaactgattc	3300
tactgtcctg	gtgagatgga	gtccacctcg	ggcccagata	acaggatacc	gactgacctg	3360
gggccttacc	cgaagaggcc	agcccaggca	gtacaatgtg	ggtccctctg	tctccaagta	3420
ccccctgagg	aatctgcagc	ctgcatctga	gtacaccgta	tccctcgtgg	ccataaagggt	3480
caaccaagag	agcccaaaag	ccactggagt	ctttaccaca	ctgcagcctg	ggagctctat	3540
tccaccttac	aacaccgagg	tgactgagac	caccattgtg	atcacatgga	cgctgtctcc	3600
aagaattggt	tttaagctgg	gtgtacgacc	aagccaggga	ggagaggcac	cacgagaagt	3660
gacttcagac	tcaggagaca	tcgttgtgtc	cggcttgact	ccaggagtag	aatacgtcta	3720
caccatccaa	gtcctgagag	atggacagga	aagagatgcg	ccaattgtaa	acaaagtgggt	3780
gacaccattg	tctccacca	caaacttgca	tctggaggca	aaccttgaca	ctggagtgtc	3840
cacagtctcc	tgggagagga	gcaccacccc	agacattact	ggttatagaa	ttaccacaac	3900
ccctacaaac	ggccagcagg	gaaattcttt	ggaagaagtg	gtccatgctg	atcagagctc	3960
ctgcactttt	gataacctga	gtcccggcct	ggagtacaat	gtcagtgttt	acactgtcaa	4020
ggatgacaag	gaaagtgtcc	ctatctctga	taccatcctc	ccagctgttc	ctcctccacc	4080
tgacctgcga	ttaccaaca	ttggtccaga	caccatgcgt	gtcacctggg	ctccaccccc	4140
atccattgat	ttaaccaact	tcttggtgcg	ttactcacct	gtgaaaaatg	aggaagatgt	4200
tgcagagttg	tcaattttctc	cttcagacaa	tgcagtggtc	ttaacaaatc	tcttgccctgg	4260
tacagaatat	gtagtgagtg	tctccagtgt	ctacgaacaa	catgagagca	cacctcttag	4320
aggaagacag	aaaacaggtc	ttgattcccc	aactggcatt	gacttttctg	atattactgc	4380
caactccttt	actgtgcact	ggattgtctc	tcagaccacc	atcactggct	acaggatccg	4440
ccatcatccc	gagcagcttc	gtgggagacc	tcgagaagat	cgggtgcccc	actctcggaa	4500
ttccatcacc	ctcaccaacc	tactccagg	cacagagtat	gtggtcagca	tcgttgctct	4560
taatggcaga	gaggaaagtc	ccttattgat	tggccaacaa	tcaacagttt	ctgatgttcc	4620
gagggacctg	gaagtgtgtg	ctgcgacccc	caccagccta	ctgatcagct	gggatgtctc	4680
tgctgtcaca	gtgagatatt	acaggatcac	ttacggagaa	acaggaggaa	atagccctgt	4740
ccaggagttc	actgtgcctg	ggagcaagtc	tacagctacc	atcagcgcc	ttaaacctgg	4800
agttgattat	actgacctg	tgtatgctgt	cactggccgt	ggagacagcc	cgcgaagcag	4860
caagccaatt	tccattaatt	accgaacaga	aattgacaaa	ccatcccaga	tgcaagtgc	4920
cgatgttcag	gacaacagca	ttagtgtcaa	gtggctgcct	tcaagttccc	ctgttactgg	4980
ttacagagta	accaccactc	ccaaaaatgg	accaggacca	acaaaaacta	aaactgcagg	5040
tccagatcaa	acagaaatga	ctattgaagg	cctgcagccc	acagtggagt	atgtggttag	5100
tgtctatgct	cagaatccaa	gcggagagag	tcagcctctg	gttcagactg	cagtaaccaa	5160
cattgatcgc	cctaaaggac	tggcattcac	tgatgtggat	gtcgattcca	tcaaaattgc	5220
ttgggaaagc	ccacaggggc	aagtttccag	gtacaggggtg	acctactcga	gccctgagga	5280
tggaatccat	gagctattcc	ctgcacctga	tgggtgaagaa	gacactgcag	agctgcaagg	5340
cctcagaccg	ggttctgagt	acacagtcag	tgtggttgcc	ttgcacgatg	atatggagag	5400
ccagccccctg	attggaaccc	agtccacagc	tattcctgca	ccaactgacc	tgaagtccac	5460
tcaggtcaca	cccacaagcc	tgagcgccca	gtggacacca	cccaatgttc	agctcactgg	5520
atatcgagtg	cgggtgaccc	ccaaggagaa	gaccggacca	atgaaagaaa	tcaaccttgc	5580
tcttgacagc	tcacccgtgg	ttgtatcagg	acttatgggtg	gccaccaaat	atgaagtgc	5640
tgtctatgct	cttaaggaca	ctttgacaag	cagaccagct	caggggtgtg	tcaccactct	5700
ggagaatgtc	agcccaccaa	gaagggtcgc	tgtgacagat	gtactgaga	ccaccatcac	5760
cattagctgg	agaaccaaga	ctgagacgat	cactggcttc	caagtgtgatg	ccgttccagc	5820
caatggccag	actccaatcc	agagaacat	caagccagat	gtcagaagct	acaccatcac	5880
aggtttacaa	ccaggcactg	actacaagat	ctacctgtac	accttgaatg	acaatgctcg	5940

```

gagctccccct gtggtcatcg acgcctccac tgccattgat gcaccatcca acctgcgttt 6000
cctggccacc acacccaatt ccttgctggt atcatggcag ccgccacgtg ccaggattac 6060
cggctacatc atcaagtatg agaagcctgg gtctcctccc agagaagtgg tccctcggcc 6120
ccgccctggt gtcacagagg ctactattac tggcctggaa ccgggaaccg aatatacaat 6180
ttatgtcatt gccctgaaga ataatcagaa gagcgagccc ctgattggaa ggaaaaagac 6240
agacgagctt ccccaactgg taacccttcc acacccaat cttcatggac cagagatctt 6300
ggatgttctt tccacagttc aaaagacccc tttcgtcacc caccctgggt atgacactgg 6360
aaatggtatt cagcttctctg gcacttcttg tcagcaaccc agtggtgggc aacaaatgat 6420
ctttgaggaa catggtttta ggcggaccac accgcccaca acggccaccc ccataaggca 6480
taggccaaga ccataccgcg cgaatgtagg acaagaagct ctctctcaga caaccatctc 6540
atgggccccc ttccaggaca cttctgagta catcatttca tgtcctctg ttggcactga 6600
tgaagaaccc ttacagttca gggttcctgg aacttctacc agtgccactc tgacaggcct 6660
caccagaggt gccacctaca acatcatagt ggaggcactg aaagaccagc agaggcataa 6720
ggttcgggaa gaggttggtta ccgtgggcaa ctctgtcaac gaaggcttga accaacctac 6780
ggatgactcg tgctttgacc cctacacagt tcccatat gccgttggag atgagtggga 6840
acgaatgtct gaatcaggct ttaaactggt gtgccagtgc ttaggctttg gaagtggta 6900
tttcagatgt gattcatcta gatggtgcca tgacaatggt gtgaactaca agattggaga 6960
gaagtgggag cgtcaggagc aaaatggcca gatgatgagc tgcacatgtc ttgggaacgg 7020
aaaaggagaa ttcaagtgtg accctcatga ggcaacgtgt tacgatgatg ggaagacata 7080
ccacgtagga gaacagtggc agaaggaata tctcgttgcc atttgcctct gcacatgctt 7140
tggaggccag cggggctggc gctgtgacaa ctgccgcaga cctgggggtg aaccagtc 7200
cgaaggcact actggccagt cctacaacca gtattctcag agataccatc agagaacaaa 7260
cactaatggt aattgcccaa ttgagtgtct catgccttta gatgtacagg ctgacagaga 7320
agattcccga gattaaatca tctttccaat ccagaggaac aagcatgtct ctctgccaa 7380
atccatctaa actggagtga tgtagcaga cccagcttag agttcttctt tctttcttaa 7440
gccctttgct ctggaggaag ttctccagct tcagctcaac tcacagcttc tccaagcatc 7500
accctgggag tttcctgagg gttttctcat aaatgagggc tgcacattgc ctgttctgct 7560
tcgaagtatt caataccgct cagtatttta aatgaagtga ttctaagatt tggtttggga 7620
tcaataggaa agcatatgca gccaaccaag atgcaaagt tttgaaatga tatgacaaa 7680
attttaagta ggaaagtcac ccaaacactt ctgctttcac ttaagtgtct ggcccgaat 7740
actgtaggaa caagcatgat cttgttactg tgatatttta aatatccaca gtactcactt 7800
tttccaaatg atcctagtaa ttgcctagaa atatctttct cttacctgtt atttatcaat 7860
ttttcccagt atttttatac ggaaaaaatt gtattgaaaa cacttagtat gcagttgata 7920
agaggaattt ggtataatta tgggtgggtga ttatttttta tactgtatgt gccaaagctt 7980
tactactgtg gaaagacaac tgttttaata aaagatttac attccacaaa aaaaaaaaaa 8040
aggg 8044

```

<210> 136

<211> 841

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 993585.1

<220>

<221> unsure

<222> 610-611

<223> a, t, c, g, or other

<400> 136

```

ccacgcgtcc gcgctgccaa catggtgagt cttactgttg cgggctccgg ggccgtcgac 60
catgccgtc gacctccacc tccgtggga agctgaggcg ccgaacgggt cccagagggt 120
cccggaagc gcatggtgtt caggcgttc gtggagggtg gccgggtggc ctatgtctcc 180
tttggacctc atgccgaaa attggtcgcg attgtagatg ttattgatca gaacagggtc 240
ttggtcgatg gaccttgac tcaagtgagg agacaggcca tgcctttcaa gtgcatgcag 300
ctcactgatt tcactctcaa gtttccgcac agtgcccacc agaagtatgt ccgacaagcc 360
tggcagaagg cagacatcaa taaaaaatgg gcagccacac gatgggccaa gaagattgaa 420
gccagagaaa ggaaagccaa gatgacagat tttgatcggt ttaaaagtat gaaggcaaag 480
aaaatgagga acagaataat caagaatgaa gttaagaagc ttcaaaaggc agctctcctg 540

```

PA-0024 US

```
aaagcttctc ccaaaaaagc acctgggtact aaggggtactg ctgctgctgc tgctgctgct 600
gctgcttctn ntgctaaagt tccagcaaaa aagatcaccg ccgcgagtaa aaaggctcca 660
gcccagaagg ttcctgcccc gaaagccaca ggccagaaag cagcgcctgc tccaaaagct 720
cagaaggggc aaaaagctcc agcccagaaa gcacctgctc caaaggcatc tggcaagaaa 780
gcataagtgg caatcataaa aagtaataaa ggttcttttt gacctgttga caaatgtaaa 840
a 841
```

<210> 137

<211> 878

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242984.17

<400> 137

```
gttgggctgg actcagggac cgactcttcc cgtctcatga ctgtgtttac tgggctggat 60
tttgggaagg ggccagattg catcagacag ggctgatgg gctggagcca gactgtggct 120
tgaggaggag acacagcctt ataagctgag ggagtggaga ggcccggggc caggaaagca 180
gagacagaca aagcgttagg agaagaagag aggcagggaa gacaagccag gcacgatggc 240
caccttccca ccagcaacca gcgcccccca gcagccccca ggcccggagg acgaggactc 300
cagcctggat gaatctgacc tctatagcct ggcccattcc tacctcgggc ctctcatcat 360
gcctatgcct acttcacctc tgactcctgc cttgggttaca ggaggtggag gccggaagg 420
tcgcaccaag agagaagctg ctgccaacac caaccgcccc agccctggcg ggcacgagag 480
gaaactggtg accaagctgc agaattcaga gaggaagaag cgagggggcac ggcgctgaga 540
cagagctgga gatgaggcca gaccatggac actacacca gcaatagaga cgggactgcg 600
gaggaaggag gaccaggac aggatccagg cggcttgcc acacccccca cccctaggac 660
ttattcccgc tgactgagtc tctgaggggc taccaggaaa gcgcctccaa ccctagcaaa 720
agtgaagat ggggagtga aggctgggaa tggaggggca gagccaggaa gatccccag 780
aaaagaaaagc tacagaagaa actggggctc ctocagggtg gcagcaacaa taaatagaca 840
cgcacggcag ccacagcttg ggtgtgtgtt catccttg 878
```

<210> 138

<211> 1002

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 444820.12

<220>

<221> unsure

<222> 220-243

<223> a, t, c, g, or other

<400> 138

```
caaatcggct gattctgcat ctggaaaactg ccttcatctt gaaagaaaag tttaccagga 60
agtaaccccg gcaaattcac ctcgttggta cgaagagagt gtcagcagag gtcgcctcca 120
gaggagggtg tgtggagact gagcgcatag cacccttaaa atcctgggac cagggttct 180
ccacggctcc aggtcccttc tccagccacc cagccccaan nnnnnnnnnn nnnnnnnnnn 240
nnnttccgca ctggctggcc tcttcgggtg ggcagaggga caagcatttc atcttgggaa 300
gtgccccaat cctccgggtg aggagaattt tgacgtgaat aagtatctcg gaagatggta 360
cgaaattgag aagatcccaa caacctttga gaatggacgc tgcattccagg ccaactactc 420
actaatggga aaacggaaag atcaaagtg taaaccagga gttgagagct gatggaactg 480
tgaatcaa atcgaaggtgaa gccacccag ttaacctcac agagcctgcc aagctggaag 540
ttaagttttc ctggtttatg ccatcggcac cgtactggat cctggccacc gactatgaga 600
actatgccct cgtgtattcc tgtacctgca tcatccaact ttttcacgtg gattttgctt 660
ggatcttggc aagaaacctt aatctccctc cagaaacagt ggactctcta aaaaatatcc 720
tgacttctaa taacattgat gtcaagaaaa tgacgggtcac agaccagggtg aactgcccc 780
```

PA-0024 US

```
agctctcgta accaggttct acagggagge tgcacccact ccatgttact tctgcttcgc 840
ttccccctac cccacccccccc ccccataaag acaaaccaat caaccacgac aaaggaagtt 900
gacctgaaca tgtaaccatg ccttaccctg ttaccttgct agctgcaaaa taaacttggt 960
gctgacctgc tgtgctcgca gtagattcca aaaaaaaaaa aa 1002
```